

# Notice and Agenda of a Meeting of the Beaumont Basin Watermaster

Wednesday, June 7, 2017 at 10:00 a.m.

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## Meeting Location:

Beaumont Cherry Valley Water District  
560 Magnolia Avenue  
Beaumont, California 92223  
(951) 845-9581

## Watermaster Members:

City of Banning  
City of Beaumont  
Beaumont Cherry Valley Water District  
South Mesa Water Company  
Yucaipa Valley Water District

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### I. Call to Order

### II. Roll Call

City of Banning: Arturo Vela (Alternate: Michael Rock)

City of Beaumont: \_\_\_\_\_ (Alternate: Kyle Warsinski)

Beaumont Cherry Valley Water District: Eric Fraser (Alternate: Tony Lara)

South Mesa Water Company: George Jorritsma (Alternate: Dave Armstrong)

Yucaipa Valley Water District: Joseph Zoba (Alternate: Jennifer Ares)

### III. Pledge of Allegiance

**IV. Public Comments** At this time, members of the public may address the Beaumont Basin Watermaster on matters within its jurisdiction; however, no action or discussion may take place on any item not on the agenda. To provide comments on specific agenda items, please complete a Request to Speak form and provide that form to the Secretary prior to the commencement of the meeting.

### V. Consent Calendar

A. Meeting Minutes

1. Meeting Minutes for February 1, 2017

2. Meeting Minutes for April 5, 2017

### VI. Reports

A. Report from Engineering Consultant - Hannibal Blandon, ALDA Engineering

B. Report from Legal Counsel - Keith McCullough/Thierry Montoya, Alvarado Smith

### VII. Discussion Items

A. Status Report on Water Level Monitoring throughout the Beaumont Basin through May 31, 2017 [[Memorandum No. 17-13, Page 15 of 202](#)]

Recommendation: No recommendation.

B. 2016 Consolidated Annual Report and Engineering Report - Draft Report [[Memorandum No. 17-14, Page 20 of 202](#)]

Recommendation: No recommendation - For informational purposes only.

C. 2014 Sustainable Groundwater Management Act Reporting Requirements and its Impacts on the 2017 Consolidated Annual Report and Engineering Report [[Memorandum No. 17-15, Page 21 of 202](#)]

Recommendation: No recommendation - For discussion.

- D. Approval of the Groundwater Storage Application and Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency in the Amount of 10,000 Acre Feet [Memorandum No. 17-16, Page 24 of 202]

Recommendation: That the Watermaster adopts Resolution No. 2017-01, A Resolution of the Beaumont Basin Watermaster to Confirm and Adopt San Gorgonio Pass Water Agency's Application for Groundwater Storage Agreement, Subject to Stated Conditions.

#### **VIII. Topics for Future Meetings**

- A. Development of a methodology and policy to account for new yield from capturing local stormwater in the basin.
- B. Development of a methodology and policy to account for groundwater storage losses in the basin resulting from the spreading of additional water sources.
- C. Development of a methodology and policy to account for recycled water recharge.
- D. Develop a protocol to increase the accuracy and consistency of data reported to the Watermaster.
- E. Develop a policy to account for transfers of water that may result when an Appropriator provides water service to an Overlying Party.

#### **IX. Comments from the Watermaster Committee Members**

##### **X. Announcements**

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, August 2, 2017 at 10:00 a.m.

##### **XI. Adjournment**

# Consent Calendar

**Record of the Minutes of the  
Beaumont Basin Committee Meeting of the  
Beaumont Basin Watermaster  
Wednesday, February 1, 2017**

**Meeting Location:**

Beaumont-Cherry Valley Water District  
560 Magnolia Avenue  
Beaumont, CA 92223

**I. Call to Order**

*Chairman Arturo Vela called the meeting to order at 10:01 a.m.*

**II. Roll Call**

<i>City of Banning</i>	<i>Arturo Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Kyle Warsinski</i>	<i>Present</i>
<i>Beaumont Cherry Valley Water District</i>	<i>Eric Fraser</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>George Jorritsma</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

*Kyle Warsinski was present as the alternate representing the City of Beaumont. Thierry Montoya was present representing legal counsel for the Beaumont Basin Watermaster.*

*Members of the public who registered their attendance were: Hannibal Blandon, Patsy Reeley, and Mike Thornton.*

**III. Pledge of Allegiance**

*Chairman Vela led the pledge of allegiance.*

**IV. Public Comments**

*Mike Thornton, speaking on behalf of the City of Calimesa (the City), requested that the Watermaster place an item on a future agenda to consider the City intervening in the Watermaster process on behalf of overlying water users, as well as getting a better understanding of why the City is having difficulties in getting its development projects to move forward as it relates to water issues.*

*After discussion, the consensus of the Committee was to meet with the City and discuss the role of the Watermaster and the Pass Agency and how groundwater and imported water will be provided to the City.*

**V. Consent Calendar**

**A. Meeting Minutes**

**1. Meeting Minutes for December 7, 2016**

*Member Eric Fraser motioned to approve the consent calendar. The motion was seconded by Member George Jorritsma and passed 5-0.*



## **VI. Reports**

- A. Report from Engineering Consultant - Hannibal Blandon, ALDA Engineering

*Engineer Hannibal Blandon stated that he and Tom Harder are providing responses to requests for data related to the SAWPA Triennial Ambient Water Quality report that CDM Smith prepares.*

*Engineer Blandon reported on water levels that are currently being monitored, and provided an analysis of drastic changes in water levels at various sites.*

- B. Report from Legal Counsel - Thierry Montoya, Alvarado Smith

*Legal Counsel Thierry Montoya reported on the resolution in the current agenda package related to San Gorgonio Pass Water Agency's (SGPWA) application for a groundwater storage account.*

## **VII. Discussion Items**

- A. Reorganization of the Beaumont Basin Watermaster Committee – Chairman, Vice-Chairman, Secretary, and Treasurer [Memorandum No. 17-01, Page 11 of 82]

Recommendation: That the members of the Watermaster either reaffirm the existing officers or conduct nominations for the appointment of new officers of the Beaumont Basin Watermaster.

*Member Fraser motioned to reaffirm the positions as they stand. The motion was seconded by Member Warsinski and passed 5-0.*

- B. Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum No. 17-02, Page 12 of 82]

Recommendation: That the Watermaster Committee receives and files the Independent Accountant's Financial Report for the period ending June 30, 2016.

*After Member Joseph Zoba provided a brief explanation of the report and answers to several questions raised, Member Warsinski motioned to receive and file the report. Member Fraser seconded the motion and the motion passed 5-0.*

- C. Review and Discussion of Conditions Related to the Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency (SGPWA) [Memorandum No. 17-03, Page 18 of 82]

Recommendation: That the Watermaster schedule a special meeting on Wednesday March 1, 2017 to consider adopting Resolution No. 17-01.

*Member Zoba provided an update on the progress being made in discussions with the SGPWA regarding their proposal for a Groundwater Storage Agreement, gave an overview of Resolution 17-01, and brought forth the*

*suggestion of the Watermaster having a special meeting to potentially adopt the Resolution.*

*After discussion among the Watermaster Members regarding Resolution 17-01 and some of the language therein, with some insight provided by Legal Counsel Montoya as well as SGPWA General Manager Jeff Davis, a few minor changes to the language were agreed upon and the item was continued to the next meeting.*

- D. Review and Discussion of the Conceptual Framework for the Formation of a Groundwater Sustainability Agency for the San Timoteo Basin 8-2.08 [Memorandum No. 17-04, Page 22 of 82]

Recommendation: That the Watermaster Committee request to be identified as a stakeholder within the San Timoteo Basin Memorandum of Agreement for the Sustainable Groundwater Management Act.

*Member Zoba provided an overview of the agenda item, the discussions that have occurred with other stakeholder agencies regarding the formation of a GSA, and a draft Memorandum of Agreement for the San Timoteo Basin under the Sustainable Groundwater Management Act.*

- E. Approval of a Contract Amendment for Engineering Services with ALDA Inc. [Memorandum No. 17-05, Page 33 of 82]

Recommendation: That the Watermaster Committee directs legal counsel to prepare a contract amendment extending the contract with ALDA Inc. through December 31, 2021.

*Member Zoba explained that the contract with ALDA Inc. had expired on June 30, 2016 and based on the positive track record with ALDA Inc., recommended that the Watermaster direct legal counsel to prepare a contract amendment through December 31, 2021. After some discussion, Member Zoba motioned to direct legal counsel to prepare a contract amendment extending the contract with ALDA Inc. through December 31, 2021. Member Fraser seconded the motion and the motion passed 5-0.*

- F. Discussion Regarding Task Order No. 12 with ALDA Inc. for the Preparation of the 2016 Consolidated Annual Report, Estimate of the Basin Safe Yield, Update of the Groundwater Model, and Associated Consulting Services [Memorandum No. 17-06, Page 47 of 82]

Recommendation: That the Watermaster Committee approves Task Order No. 12 for a sum not to exceed \$95,970.

*After Engineer Blandon gave an overview of Task Order No. 12, which covers most of the services provided by ALDA Inc. on a year-to-year basis, Member Member Jorritsma motioned to approve Task Order No. 12. Member Zoba seconded the motion and the motion passed 5-0.*

- G. Discussion Regarding Task Order No. 13 with ALDA Inc. for the Installation, Maintenance and Data Collection of Water Level Monitoring Equipment in 2017 [Memorandum No. 17-07, Page 53 of 82]

Recommendation: That the Watermaster Committee approves Task Order No. 13 for a sum not to exceed \$21,520.

*After Engineer Blandon gave an overview of Task Order No. 13, which was followed by discussion, Member Zoba motioned to approve Task Order No. 13 for a sum not to exceed \$21,520. Member Fraser seconded the motion and the motion passed 5-0.*

- H. Discussion Regarding Task Order No. 14 with ALDA Inc. for the Analysis of Return Flows by Appropriators to the Beaumont Groundwater Basin and incorporation of findings into the 2016 Beaumont Basin Watermaster Annual Report [Memorandum No. 17-08, Page 57 of 82]

Recommendation: That the Watermaster Committee approves Task Order No. 14 for a sum not to exceed \$12,960.

*Thomas Harder of Thomas Harder & Co., hydrogeologist for the Watermaster, presented a proposed scope of work to include return flow records in the 2016 Annual Report by Appropriator. He explained the steps that would be involved and that the majority of the one-time cost would result from the time spent working with the City of Banning to reconcile and incorporate its data.*

*Several Members discussed the allocation of the cost among all five member agencies in light of the benefits that would be derived by the Watermaster as an agency versus the individual member agencies, as several of the agencies may not see a direct individual benefit from the work proposed.*

*Member Jorritsma made a motion to approve Task Order No. 14, with the City of Banning to work with the consultant to amend the scope and reduce the cost of the Task Order, which will be allocated among four member agencies, excluding South Mesa Water Company. Member Zoba seconded the motion and the motion passed 5-0.*

- I. Presentation of Methodology for Estimating Groundwater Storage Losses Associated with Supplemental Water Recharge [Memorandum No. 17-09, Page 61 of 82]

Recommendation: No recommendation.

*Mr. Harder requested the Committee's input regarding its strategic goals, direction, and desires in terms of groundwater storage losses associated with supplemental water recharge. He explained that the methodology to evaluate Basin losses associated with supplemental water recharge is straightforward, but that there are currently no storage losses being accounted for.*

*Several Members discussed the need for accounting for estimated groundwater storage losses and developing a methodology that applies losses based on the spatial location of recharge activities for storage account water, with a separate and from a methodology that would apply to pre-storage account water.*

*Mr. Harder went on to say that he would summarize methodologies used to account for groundwater storage losses by other agencies, and that he would have a proposal for the Committee next meeting, that would include the key elements of the considerations for review.*

- J. Discussion Regarding the Methodology for Calculating New Yield [Memorandum No. 17-10, Page 62 of 82]

Recommendation: No recommendation.

*Mr. Harder gave an overview of the issues he would face in calculating new yield that would be allowed for under the stipulated judgment. He recommended at least establishing a gauge at the outflow across Beaumont Avenue to get a baseline in order begin tackling those issues.*

*After discussion and dialogue, several Members voiced their support of continuing the conversation and discussions regarding the development of a methodology for calculating new yield.*

- K. Discussion Regarding the Water Level Monitoring Equipment [Memorandum No. 17-11, Page 63 of 82]

Recommendation: That the Watermaster Committee continues to use the Solinst monitoring equipment.

*Engineer Blandon noted the concerns that had been raised in prior Watermaster discussions about poor customer service received from the manufacturer of the water level monitoring equipment currently in use, and as such, the Watermaster Committee had requested that ALDA Inc. look at other manufacturers to evaluate the possibility of installing new equipment.*

*Engineer Blandon presented a comparison matrix of four providers of water level monitoring equipment, including Solinst, the current provider of equipment, and discussed aspects of each such as features, costs, and reliability. He recommended that the Watermaster continue with Solinst.*

## **VIII. Topics for Future Meetings**

- A. Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency
- B. Development of a methodology and policy to account for new yield from capturing local storm water in the basin
- C. Development of a methodology and policy to account for groundwater storage losses in the basin resulting from the spreading of additional water sources
- D. Development of a methodology and policy to account for recycled water recharge
- E. Develop a protocol to increase the accuracy and consistency of data reported to the Watermaster

- F. Develop a policy to account for transfers of water that may result when an Appropriator provides water service to an Overlying Party

**IX. Comments from the Watermaster Committee Members**

*There were no comments from the Watermaster Committee Members.*

**X. Announcements**

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, April 5, 2017 at 10:00 a.m.

**XI. Adjournment**

*Chairman Vela adjourned the meeting at 11:19 a.m.*

Attest:

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Eric Fraser, Secretary  
Beaumont Basin Watermaster

**Record of the Minutes of the  
Beaumont Basin Committee Meeting of the  
Beaumont Basin Watermaster  
Wednesday, April 5, 2017**

**Meeting Location:**

Beaumont-Cherry Valley Water District  
560 Magnolia Avenue  
Beaumont, CA 92223

**I. Call to Order**

*Vice-Chairman George Jorritsma called the meeting to order at 10:07 a.m.*

**II. Roll Call**

<i>City of Banning</i>	<i>Arturo Vela</i>	<i>Absent</i>
<i>City of Beaumont</i>	<i>Kyle Warsinski</i>	<i>Present</i>
<i>Beaumont Cherry Valley Water District</i>	<i>Eric Fraser</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>George Jorritsma</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

*Kyle Warsinski was present as the alternate representing the City of Beaumont. Thierry Montoya was present representing legal counsel for the Beaumont Basin Watermaster.*

*Members of the public who registered their attendance were: Fran Flanders, Hannibal Blandon, and David Costaldo.*

**III. Pledge of Allegiance**

*Vice-Chairman Jorritsma led the pledge of allegiance.*

**IV. Public Comments**

*Judy Bingham urged the Watermaster to perform its duty to protect the Beaumont Basin from being drained.*

**V. Reports**

**A. Report from Engineering Consultant - Hannibal Blandon, ALDA Engineering**

*Engineer Hannibal Blandon gave a report on the water levels at various sites being monitored.*

*Thomas Harder of Thomas Harder & Co., hydrogeologist for the Watermaster, shared that the San Geronio Pass Water Agency (SGPWA) has commissioned RMC Water and Environment (RMC) to develop a groundwater flow model of the Beaumont Basin, who in turn had requested related Watermaster data from Mr. Harder.*

*Member Fraser suggested that Mr. Harder provide the requested data to RMC on the condition that they in turn provide any additional data beyond what the Watermaster might have as a result of their development of a groundwater flow model. There was*

*consensus among the Members of the Watermaster to include this condition, and Member Zoba suggested having RMC agree to that condition in writing, with the assistance of Legal Counsel Montoya. He also requested a copy of the written request from RMC to Mr. Harder.*

*Legal Counsel Montoya suggested that the Watermaster have RMC submit a Public Record Act request for the data, to which the Watermaster could respond accordingly. The Members of the Watermaster voiced their agreement with this suggestion.*

B. Report from Legal Counsel - Thierry Montoya, Alvarado Smith

*Legal Counsel Thierry Montoya reported that he had prepared an amendment to the contract with ALDA Inc. and had emailed it to the Watermaster Members for their comments. He noted that if there were no comments the agreement is ready for signature.*

## **VI. Discussion Items**

A. Overview of the Issues Associated with the Estimation of Groundwater Storage Losses due to Supplemental Water Recharge [Memorandum No. 17-12, Page 7 of 11]

Recommendation: No recommendation.

*Mr. Harder presented a synopsis of the methodology, or lack thereof, of twelve groundwater management basins in California in estimating groundwater storage losses. He concluded his synopsis by suggesting that in his research, he had found that with the exception of a couple of groundwater management basins, storage losses are not addressed as technically or in as much detail as he had expected.*

*Mr. Harder went on to discuss the unique hydrogeological issues faced by the Beaumont Basin in developing a methodology for accounting for groundwater storage losses, then provided a few conceptual scenarios for addressing those issues in the development of a model.*

*Several Members voiced their support of a technically defensible model to estimate groundwater storage losses as opposed to applying a flat percentage of groundwater storage losses to all storage accounts.*

*Engineer Blandon asked for clarification from the Watermaster in terms of whether a line item proposal for developing a sound model for estimating groundwater storage losses would be desired. The consensus among the Watermaster was that such a proposal would be acceptable and Engineer Blandon confirmed that one would be presented at the following meeting.*

## **VII. Topics for Future Meetings**

A. Groundwater Storage Agreement in the Beaumont Basin for the San Geronio Pass Water Agency

- B. Development of a methodology and policy to account for new yield from capturing local storm water in the basin
- C. Development of a methodology and policy to account for groundwater storage losses in the basin resulting from the spreading of additional water sources
- D. Development of a methodology and policy to account for recycled water recharge
- E. Develop a protocol to increase the accuracy and consistency of data reported to the Watermaster
- F. Develop a policy to account for transfers of water that may result when an Appropriator provides water service to an Overlying Party

#### **VIII. Comments from the Watermaster Committee Members**

*There were no comments from the Watermaster Committee Members.*

#### **IX. Announcements**

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, June 7, 2017 at 10:00 a.m.

#### **X. Adjournment**

*Vice-Chairman Jorritsma adjourned the meeting at 10:50 a.m.*

Attest:

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Eric Fraser, Secretary  
Beaumont Basin Watermaster



# Reports

# Discussion Items

# BEAUMONT BASIN WATERMASTER

## MEMORANDUM NO. 17-13

**Date:** June 7, 2017

**From:** Hannibal Blandon, ALDA Inc

**Subject:** Status Report on Water Level Monitoring throughout the  
Beaumont Basin through May 31, 2017

**Recommendation:** No recommendation

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At the Watermaster Committee meeting on February 1, 2017, Thomas Harder made a presentation to the Watermaster Committee on the methodology for estimating groundwater storage losses associated with supplemental water recharge.

As a result of the presentation, the Watermaster Committee requested Mr. Harder to conduct a review of how storage losses are being addressed in other adjudicated basins in Southern California.

The attached technical memorandum documents the results of Mr. Harder's review.

# *Technical Memorandum*

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**To:** Mr. Hannibal Blandon  
Alda Engineering

**From:** Thomas Harder, P.G., CH.G.  
Thomas Harder & Co.

**Date:** 29-Mar-17

**Re:** Estimating Groundwater Storage Losses Associated with Supplemental Water Recharge – Outline of Issues

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One of the findings from the 2013 Reevaluation of the Beaumont Basin Safe Yield was that there are groundwater underflow losses out of the basin and that the amount of loss is sensitive to pumping and recharge from both within and outside the Beaumont Basin. Based on analysis of groundwater contour maps, underflow losses appear to occur in multiple locations along the southern portion of the basin. Furthermore, the rate of underflow out of the basin may change with changes in intentional recharge of imported water inside the basin. The calibrated groundwater flow model developed for the Safe Yield reevaluation was used to estimate the amount and location of groundwater underflow out of the basin, based on existing data. This Technical Memorandum (TM) outlines issues associated with quantifying underflow outflow losses from storage of supplemental water from outside the basin.

## **Storage Losses As Addressed in Other Adjudicated Basins**

In reviewing the Judgments and other available management documents for various adjudicated basins in southern California, each basin addresses losses in different ways (if they address them at all), which reflects the unique history, governance structure, and hydrogeology of each area. I have conducted a cursory review.<sup>1</sup> of the Judgments and selected management documents for the following adjudicated basins:

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<sup>1</sup> It is noted that I did not conduct a review of every adjudicated basin in California. I also did not read each Judgment in detail but rather focused on sections pertaining to groundwater storage and losses, if I could find them.

Thomas Harder & Co.  
1260 N. Hancock St., Suite 109  
Anaheim, California 92807  
(714) 779-3875

Basin	Losses Addressed	Losses Not Addressed
Chino	X	
Cucamonga		X
Central/West Coast Basins	X	
Goleta		X
Kern Water Bank*	X	
Main San Gabriel	X	
Mojave	X	
Orange County		X
Raymond	X	
Santa Maria Valley		X
Six Basins	X	
Tehachapi/Cummings		X

\*Not an adjudicated basin but they have addressed losses so I included them.

The following summarizes my review of basins in which the losses are addressed.

**Chino Basin** – The Chino Basin Judgment, Rules and Regulations, and various agreements all address storage losses. Right now, a 2 percent/yr loss is assessed on all storage accounts. The methodology for determining the 2 percent loss factor is not documented. I attempted to contact the Chino Basin Watermaster engineer to interview him on the methodology but, to date, have not been successful.

**Central/West Coast Basins** – Storage of imported water in the Central Basin is capped at 330,000 acre-ft/yr. If storage accounts exceed the maximum, then losses are applied to the most recently stored water (referred to as “spill-over”). I was unable to find the percentage loss applied to spill-over accounts or the methodology for determining the value.

**Kern Water Bank** – Losses associated with channel infiltration and evapotranspiration are assessed at a rate of 7 percent/yr on all water stored in the Kern Water Bank. An additional loss factor of 2 percent is assessed for underflow losses out of the area. Both the 7 percent and 2 percent loss values were negotiated by Kern County Water Agency member agencies and are not based on any technical evaluation. It is noted that during the recent drought conditions, groundwater levels were well below historical low levels despite member agencies having water in their storage accounts. Impacts to private wells associated with the discrepancy have been



addressed through the formation of a Joint Operating Committee and financial compensation to affected well owners. This issue will be further addressed through the Sustainable Groundwater Management Act (SGMA) process.

**Main San Gabriel Basin** – Based on a phone interview with Mr. Steve Johnson of Stetson Engineers (the Main San Gabriel Basin engineer), there is a provision in the Judgment for this basin that requires assessment of losses from rising water at the discharge end of the basin where the San Gabriel River enters the Whittier Narrows (transition to the downgradient basin). Mr. Johnson indicated that, since 1973 (the year the Judgment was enacted), they have never encountered rising water at the Whittier Narrows and, to his knowledge, have never assessed losses in this basin.

**Mojave Basin Area** – The Mojave Basin Area Judgment addresses groundwater storage losses and indicates that the Watermaster shall calculate and assess the losses. A review of annual reports has a placeholder for losses on storage accounts. However, in all cases it indicates “TBD” (to be determined). I interviewed Mr. Bob Wagner of Wagner & Bonsignore (the Mojave Basin Area Watermaster Engineer) who indicated that the Mojave Groundwater Basin is a closed basin and losses are probably not occurring. Immediately after the Judgment was enacted, he applied an initial loss to storage accounts of 3 percent to account for water taken up by previously unsaturated sediments above the water table, based on studies by the United States Geological Survey. He does not have plans to assess losses any time in the near future.

**Raymond Basin** – Based on a phone interview with Mr. Steve Johnson (the Raymond Basin Engineer), storage losses are not addressed in the Judgment (note: this is the oldest adjudicated basin in California). The parties to the Judgment developed storage agreements outside the Judgment and assessed themselves a 1 percent loss on all storage accounts. This value was not based on a technical analysis. Mr. Johnson indicated that, during recent dry periods, groundwater levels in the basin were at historical lows despite the parties having water in their storage accounts. In order to reconcile the discrepancy, the Raymond Basin Management Board recently instituted corrections to the storage accounts.

**Six Basins** – Storage of imported water in the Six Basins area is limited by the storage capacity of the basin. I did not find what the storage capacity was, how it was calculated, or how losses were calculated. The Rules and Regulations do stipulate that water in storage shall be produced according to priority of loss, such that the type of water at greatest risk of loss is pumped first (e.g. stored imported water is pumped before native water).



## Issues Associated with Storage Losses in the Beaumont Basin

The hydrogeological setting of the Beaumont Basin is unique and will need to be taken into account for addressing losses from storage accounts. Some of the issues that will need to be considered include:

**Location of Storage** – The aquifer system within the Beaumont Basin is essentially bifurcated; water stored west of the Beaumont Plains Fault Zone will flow to the west and water stored east of the fault zone will flow to the southeast toward Banning. In addition to having different flow directions, the aquifer systems of these two areas have different storage capacities, aquifer properties, flow gradients, and points/areas of discharge out of the basin. It may be necessary to apply different loss factors for water depending on the location where the water is stored.

**Location of Extraction** – Storing water in the aquifer on the east side of the basin and extracting it from the west side is likely to create groundwater level impacts in the vicinity of extraction because the water is physically not there.

**Time of Storage** – Some consideration may be necessary for the length of time parties are allowed to keep water in storage. The groundwater basin is a dynamic system and groundwater levels will equilibrate over time. Holding water in storage accounts indefinitely and then extracting a large portion over a short period of time can create impacts.

**Extraction Amounts** – Extracting large volumes of water from storage over a short period of time can create localized groundwater level impacts.

**Losses Associated with Evaporation** – The losses discussed herein are primarily associated with subsurface outflow out of the basin. There will also be losses in recharge basins from evaporation, although these are likely to be relatively small.

This discussion of loss issues assumes that any water stored in the basin does not create groundwater quality issues.

The overall goal in accounting for losses is to make sure the Beaumont Basin Watermaster's water accounting is representative. We will provide recommendations for evaluating each of these storage loss issues in the near future.



# BEAUMONT BASIN WATERMASTER

## MEMORANDUM NO. 17-14

**Date:** June 7, 2017

**From:** Hannibal Blandon, ALDA Inc

**Subject:** 2016 Consolidated Annual Report and Engineering Report - Draft Report

**Recommendation:** No recommendation - For informational purposes only

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ALDA Inc., in association with Thomas Harder & Company, had intended to present a draft of the Annual Report at the June 7, 2017 Watermaster meeting; however, due to delays processing the data by ALDA Inc., the hydraulic model could not be run on time to determine changes in storage from 2015 to 2016. This is an important element in determining the Safe Yield for 2016. We apologize for the delay.

A draft of the 2016 Consolidated Annual Report will be presented at the August meeting.



# BEAUMONT BASIN WATERMASTER

## MEMORANDUM NO. 17-15

**Date:** June 7, 2017

**From:** Hannibal Blandon, ALDA Inc

**Subject:** 2014 Sustainable Groundwater Management Act Reporting Requirements and its Impacts on the 2017 Consolidated Annual Report and Engineering Report

**Recommendation:** No recommendation - For discussion

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As an adjudicated basin, the Beaumont Basin has reporting requirements to the state in order to comply with the Sustainable Groundwater Management Act of 2014. A fact sheet summarizing the nature of this act is attached; a full copy of the act can be downloaded from the California Department of Water Resources or the Association of California Water Agencies websites.

While a full discussion of the Act may be conducted at a later time, the intent of this agenda item is to discuss the impact of the act on the preparation of the Annual Report. Under the Act, a Watermaster is required to submit information about the basin by April 1<sup>st</sup> of each year beginning with 2015. Submittal of the following data is required under the Act:

- ✓ Groundwater elevation data
- ✓ Annual aggregated data identifying groundwater extraction for the preceding water year.
- ✓ Surface water supply used for or available for use for recharge or in-lieu use.
- ✓ Total water use.
- ✓ Change in groundwater storage.
- ✓ The annual report submitted to the court.

Mr. Tony Lara, BCVWD's Director of Operations, partially addressed the reporting requirements for 2015 and 2016. Missing from his submittal was the final Annual Report for each year as this report is finalized later in the year.

Submitting the final Annual Report by April 1<sup>st</sup> of each year to be compliant with the Act will require some changes in the timing and approval process of the draft and final reports. Mr. Blandon will present this topic for discussion by members of the Watermaster Committee to determine the best avenue to address the reporting requirements of the 2014 Sustainable Groundwater Management Act.



## Fact Sheet

The Sustainable Groundwater Management Act of 2014 is a comprehensive three-bill package that provides a framework for sustainable management of groundwater supplies by local authorities, with a limited role for state intervention only if necessary to protect the resource.

The act requires the formation of local groundwater sustainability agencies (GSAs) that must assess conditions in their local water basins and adopt locally-based management plans. The act provides substantial time – 20 years – for GSAs to implement plans and achieve long-term groundwater sustainability. It protects existing surface water and groundwater rights and does not impact current drought response measures.

ACWA supported the legislation, which was substantially consistent with recommendations developed by the association's Groundwater Sustainability Task Force and adopted by the ACWA Board of Directors. ACWA's recommendations, together with recommendations from the California Water Foundation and input from other stakeholders, helped shape many provisions to protect local control and empower local agencies to achieve the sustainability goal.

The Sustainable Groundwater Management Act of 2014 is considered just one part of a statewide, comprehensive water plan for California that includes investments in water conservation, water recycling, expanded water storage, safe drinking water, wetlands and watershed restoration. The plan is intended to ensure a reliable water supply for California for years to come.

### GSAs and Local Sustainability Plans

The Sustainable Groundwater Management Act provides local GSAs with tools and authority to:

- Require registration of groundwater wells
- Measure and manage extractions
- Require reports and assess fees
- Request revisions of basin boundaries, including establishing new subbasins

GSAs responsible for high- and medium-priority basins must adopt groundwater sustainability plans within five to seven years, depending on whether the basin is in critical overdraft. Agencies may adopt a single plan covering an entire basin or combine a number of plans created by multiple agencies. Preparation of groundwater sustainability plans is exempt from CEQA.

Plans must include a physical description of the basin, including groundwater levels, groundwater quality, subsidence, information on groundwater-surface water interaction, data on historical and

Prepared by the Association of California Water Agencies [www.acwa.com](http://www.acwa.com)  
October 2014

projected water demands and supplies, monitoring and management provisions, and a description of how the plan will affect other plans, including city and county general plans.

Plans will be evaluated every five years.

## **State Involvement and Technical Assistance**

The California Department of Water Resources (DWR) has several tasks under the Sustainable Groundwater Management Act. It must:

- Designate basins as high, medium, low or very low priority by Jan. 31, 2015
- Adopt regulations for basin boundary adjustments by Jan. 1, 2016
- Adopt regulations for evaluating adequacy of GSPs and GSA coordination agreements by June 1, 2016
- Publish a report estimating water available for groundwater replenishment by Dec. 31, 2016
- Publish groundwater sustainability best management practices by Jan. 1, 2017

## **State Review and Intervention**

The State Water Resources Control Board may intervene if a GSA is not formed or it fails to adopt or implement compliant plans by certain dates.

DWR is tasked with reviewing GSPs for adequacy after they are adopted at the local level. If DWR determines in its review that a GSP is not adequate, the State Board may designate the basin as “probationary.” If the local agency does not respond within 180 days, the State Board is authorized to create an interim plan that will remain in place until a local GSA is able to reassume responsibility with a compliant plan.

## **Financial Assistance**

If approved by voters, Proposition 1 would provide \$100 million in funding to GSAs to develop and implement sustainable groundwater management plans.

## **Key Implementation Dates**

- **June 30, 2017:** Local groundwater sustainability agencies formed.
- **Jan. 31, 2020:** Groundwater sustainability plans adopted for critically overdrafted basins.
- **Jan. 31, 2022:** Groundwater sustainability plans adopted for high- and medium-priority basins not currently in overdraft.
- **20 years after adoption:** All high- and medium-priority groundwater basins must achieve sustainability.

# BEAUMONT BASIN WATERMASTER

## MEMORANDUM NO. 17-16

**Date:** June 7, 2017

**From:** Joseph Zoba, Treasurer

**Subject:** Approval of the Groundwater Storage Application and Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency in the Amount of 10,000 Acre Feet

**Recommendation:** That the Watermaster adopts Resolution No. 2017-01, A Resolution of the Beaumont Basin Watermaster to Confirm and Adopt San Gorgonio Pass Water Agency's Application for Groundwater Storage Agreement, Subject to Stated Conditions.

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### Background

At the April 2016 Watermaster meeting, copies of SGPWA's application for a groundwater storage agreement in the Beaumont Basin were distributed to members of the Watermaster Committee for their review.

At the Watermaster meeting on June 1, 2016, the Watermaster Committee reviewed Beaumont Basin Watermaster Memorandum No. 16-10 (Attachment A) and discussed the importance of incorporating contingencies into the approval of the storage account to protect the rights and responsibilities of the Watermaster members to fulfill the terms of the Stipulated Judgment. An excerpt from the minutes from the June 1, 2016 Watermaster meeting for this agenda item provides the following issues and discussions:

- C. Engineer's Opinion on the Application by the San Gorgonio Pass Water Agency (SGPWA) for a Groundwater Storage Agreement in the Beaumont Basin [Memorandum No. 16-10, Page 20 of 91]

Recommendation: For Information Purposes.

*Engineer Blandon gave feedback on the application for a groundwater storage agreement submitted by the SGPWA. Member Fraser stated that his principal concern with the application would be that since the SGPWA is not a party to the stipulated judgment and has no replenishment obligations in the basin, yet controls the imported water supply into the region, retail agencies with replenishment obligations could be adversely impacted if the SGPWA were to deliver water into its storage account prior to delivering to those retail agencies which have basin replenishment obligations. Member Fraser reiterated his support of the application, with a stipulation that the utilization of the storage account*

*would only be made after deliveries to parties to the stipulated judgment are met.*

*At this point, several requests for clarification of both Member Fraser's concern and of the SGPWA application were made, and discussion followed. Member George Jorritsma made a motion to acquiesce to the request of the SGPWA to be granted a water storage account.*

*Member Joseph Zoba stated that his concern was that there is not a plan for implementation, or allocation, in the sense that there could be a scenario that would allow a retail agency to purchase a large quantity of water, to the exclusion of the demands and plans of the other retail agencies for water. Member Fraser voiced his agreement with this concern raised by Member Zoba.*

*Discussion followed among several Members and Mr. Davis regarding the SGPWA's policy related to distributing water among the retailers and whether the SGPWA would agree to certain stipulations and conditions in order for a water storage account to be granted to it. Mr. Davis reiterated that the SGPWA does not want to take any water away from retail agencies but that the storage account would strictly be for water that is surplus to everyone's needs.*

*Member Fraser expressed that he would be more comfortable with incorporating some contingencies into the approval rather than approving the agreement at this meeting. He articulated that he would be willing to craft language for the next meeting that could be incorporated for the next meeting, and that he would welcome input from any Committee Members in preparing that. Member Fraser made a motion to continue the item to the next meeting of this Committee and include dialogue among the Committee Members in order to draft language and bring a more complete package for consideration at the next meeting of the Committee. The motion was seconded by Member Zoba.*

*John Covington, Water Department Manager for the Morongo Band of Mission Indians (Tribe) advised the Committee that the SGPWA is just applying for space in the Basin, and will still need to bring the details back to the Committee on Forms Two, Three and Four. Additional discussion and comments regarding the benefits and concerns of granting the water storage account to the SGPWA at this meeting, as opposed to at a future meeting, followed. Member Vela took a vote on the motion made by Member Fraser and seconded by Member Zoba, and the motion passed 4-1, with Member Jorritsma voting against.*

At the Watermaster meeting on October 5, 2016, the Watermaster Committee continued the discussion of the Storage Account for the San Gorgonio Pass Water Agency as Beaumont Basin Watermaster Memorandum No. 16-18 (Attachment B) was presented. At this meeting,

Committee Member Zoba provided an overview of a meeting with SGPWA General Manager Jeff Davis along with a suggestion that there was a fundamental consensus of the following issues:

- The storage account authorized to the San Gorgonio Pass Water Agency shall not negatively impact, impede, reduce or obstruct the purchase and delivery of supplemental water from the San Gorgonio Pass Water Agency to any water retailer of the Watermaster Committee at any location or time.
- When the quantity of supplemental water available on an annual basis exceeds all demands and/or requests for supplemental water by the Watermaster Committee members, the San Gorgonio Pass Water Agency may recharge the excess supplemental water in the Beaumont Avenue Recharge Facility or any other location approved by the Beaumont Basin Watermaster.
- Supplemental water stored by the San Gorgonio Pass Water Agency pursuant to the conditions herein and the approved Storage Agreement will be made available at any time to the members of the Watermaster without restrictions
- Any member or members of the Watermaster shall maintain the first right of refusal to purchase the supplemental water placed in storage by the San Gorgonio Pass Water Agency. All Watermaster members shall be notified in writing a minimum of 60 calendar days prior to any sale, transfer, distribution, or exchange of any supplemental water in the storage account of the San Gorgonio Pass Water Agency. The Watermaster maintains an opportunity to individually or collectively purchase the water in the storage account of the San Gorgonio Pass Water Agency under the same terms and conditions offered to a member of the Watermaster, non-member of the Watermaster, or any other entity.
- Any future condition, issue, or operational constraint that conflicts with the ability of any Watermaster member to administer and fulfill their obligation(s) pursuant to the Stipulated Judgment shall be immediate cause for rescinding the storage agreement to the San Gorgonio Pass Water Agency.

Since the specific written conditions were drafted for review by the Watermaster Committee members, the Watermaster Memorandum stated that the text was in draft form and not shared with representatives of the San Gorgonio Pass Water Agency or any Watermaster Committee member. An excerpt from the minutes from the October 5, 2016 Watermaster meeting for this agenda item provides the following issues and discussions:

- E. Application by the San Gorgonio Pass Water Agency (SGPWA) for a Groundwater Storage Agreement in the Beaumont Basin [Memorandum No. 16-18, Page 28 of 97]

Recommendation: Pending

*Member Zoba reported that he had met with the General Manager of the SGPWA since the most recent Watermaster Committee meeting to discuss the Agency's application for a groundwater storage agreement. As a result of that meeting, Member Zoba stated that he devised five stipulations or conditions to a potential agreement. He noted that these*

*conditions had not yet been vetted by the SGPWA, and went on to explain each of those conditions.*

*Member Fraser voiced his support of the five conditions outlined, and suggested that they be sent to the SGPWA Board of Directors to be formally reviewed and at that point Legal Counsel could draft a final resolution granting a storage account with the stipulated conditions.*

*After further discussion, Member Zoba moved to continue this item at the next Watermaster meeting. The motion was seconded by Member Kyle Warsinski and passed 5-0.*

At the Watermaster meeting on December 7, 2016, the Watermaster Committee continued the discussion of the Storage Account for the San Gorgonio Pass Water Agency as Beaumont Basin Watermaster Memorandum No. 16-21 (Attachment C) was presented. At this meeting, Committee Member Zoba provided an overview of the status of the Storage Agreement and that a response was expected from the San Gorgonio Pass Water Agency regarding the proposed conditions previously discussed. The meeting minutes for this agenda item were as follows:

- C. Conditions Related to the Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency [Memorandum No. 16-21, Page \_ of \_]

Recommendation: Pending

*Member Zoba stated that except for what was discussed by Legal Counsel Montoya earlier in the meeting, the Committee is ready to move forward related to the SGPWA Groundwater Storage Agreement subject to the five conditions and that an update would be provided at the next meeting.*

*SGPWA General Manager Jeff Davis addressed the Committee and made a commitment to having something for Committee consideration at the February meeting.*

On January 23, 2017, the San Gorgonio Pass Water Agency forwarded revised conditions from the perspective of the SGPWA. These conditions were subsequently discussed at a conference call on January 26, 2017 (Attachment D). During the conference call, it was apparent that there was a divergence between the common fundamental concepts that seemed agreeable and the text used to describe those common understandings between the parties.

At the Watermaster meeting on February 1, 2017, the Watermaster Committee continued the discussion of the Storage Account for the San Gorgonio Pass Water Agency as Beaumont Basin Watermaster Memorandum No. 16-21 (Attachment E) was presented. At this meeting, Committee Member Zoba provided a draft Resolution No. 17-01 with a recommendation to conduct special meetings of the Watermaster to complete the storage agreement. During the Watermaster meeting, the proposed language prepared by the San Gorgonio Pass Water Agency and discussed by conference call during the prior week was not mentioned, presented, or



advocated as a solution by Jeff Davis from the San Gorgonio Pass Water Agency. The meeting minutes for this agenda item were as follows:

- C. Review and Discussion of Conditions Related to the Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency (SGPWA) [Memorandum No. 17-03, Page 18 of 82]

Recommendation: That the Watermaster schedule a special meeting on Wednesday March 1, 2017 to consider adopting Resolution No. 17-01.

*Member Zoba provided an update on the progress being made in discussions with the SGPWA regarding their proposal for a Groundwater Storage Agreement, gave an overview of Resolution 17-01, and brought forth the suggestion of the Watermaster having a special meeting to potentially adopt the Resolution.*

*After discussion among the Watermaster Members regarding Resolution 17-01 and some of the language therein, with some insight provided by Legal Counsel Montoya as well as SGPWA General Manager Jeff Davis, a few minor changes to the language were agreed upon and the item was continued to the next meeting.*

On May 31, 2017, correspondence was sent by email from the San Gorgonio Pass Water Agency and is included herein as Attachment F.

#### Recommendation

Based on the documentation presented and provided herein, Resolution No. 2017-01 has been amended since first presented on February 12, 2017 and is included as Attachment G for your review and consideration.



# Attachment A

## BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 16-10

**Date:** June 1, 2016

**From:** Hannibal Blandon, ALDA Inc.

**Subject:** Engineer's Opinion on the Application by the San Gorgonio Pass Water Agency (SGPWA) for a Groundwater Storage Agreement in the Beaumont Basin

**Recommendation:** For Information Purposes

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At the April Board meeting, copies of SGPWA's application for a groundwater storage agreement in the Beaumont Basin were distributed to members of the Watermaster Committee for their review. Members were informed that this application will be brought for discussion at the regular Board meeting on June 1<sup>st</sup>, 2016. A copy of the application is attached.

In their application, SGPWA is requesting to store up to 10,000 ac-ft of water in the Beaumont Basin through artificial recharge of water from State Water Project and/or other supplemental water of equal or better quality. The proposed recharge facilities are located in the southwest corner of Brookside Avenue and Beaumont Avenue.

ALDA Inc., in association with Thomas Harder & Company, have conducted an initial review of the documents provided by SGPWA, and would like to offer the following comments for your consideration. Please note that our initial comments are based on our current knowledge of the basin only as no additional calculations or modeling runs have been conducted.

- 1.- Beaumont Basin Watermaster Resolution No. 2005-01 establishes principles of groundwater storage in the Beaumont Basin by Non-Appropriators. The application by SGPWA addresses each of the four sections outlined in the resolution.
- 2.- Currently, there are storage agreements with all Appropriators totaling 260,000 ac-ft. In addition, there is a storage agreement with Morongo Band of Mission Indians, a Non-Appropriator, for 20,000 ac-ft. for an overall total of 280,000 ac-ft. in storage agreements. The request by SGPWA to store up to 10,000 ac-ft. in the basin, if approved, will increase the total storage agreements by 3.57 percent to 290,000 ac-ft.
- 3.- According to the application, the SGPWA will like to construct the spreading facility and take advantage of additional water available through the State Water Project in wet years. The application indicates that the sole purpose of the storage account would be to temporarily store water purchase by SGPWA until it is purchased by

(transferred to) a local retail agency that has a storage account in the Beaumont Basin. Having this water available in SGPWA's account will increase the reliability of supply in the Beaumont Basin as Appropriators could meet their replenishment obligations by buying water from SGPWA through a paper transfer of storage.

- 4.- In the near term (10-12 years), SGPWA plans to store a maximum of 7,500 ac-ft/yr based on 80 percent plus allocation from the State and additional Article 21 water available in that year and/or additional water that SGPWA could obtain by purchase, transfer or exchange. Ultimately, SGPWA would like to store up to 13,000 ac-ft based on the 20 cfs capacity of its connection.
- 5.- The storage of imported water in the central portion of the basin could have a positive impact on local water levels; however, storage losses could potentially increase in the long term.
- 6.- Water quality of the State Water Project is equal to or better than the local groundwater quality in the basin, as documented in the application.

A representative from the SGPWA will be present at the meeting to address any questions that members of the Watermaster Committee may have.



## San Geronio Pass Water Agency

*A California State Water Project Contractor*  
1210 Beaumont Avenue • Beaumont, CA 92223  
Phone (951) 845-2577 • Fax (951) 845-0281

March 14, 2016

**President:**

**John Jeter**

**Vice President:**

**Bill Dickson**

**Treasurer:**

**Mary Ann Melleby**

**Directors:**

**Blair Ball**

**Ron Duncan**

**David Fenn**

**Leonard Stephenson**

**General Manager**

**& Chief Engineer:**

**Jeff Davis, PE**

**Legal Counsel:**

**Jeffrey Ferre**

**Best Best & Krieger**

Mr. Hanibal Blandon  
Alda Engineering  
5928 Vineyard Avenue  
Rancho Cucamonga, CA 91701

Dear Mr. Blandon:

Enclosed please find six copies of an application for a Beaumont Basin Watermaster storage account on behalf of the San Geronio Pass Water Agency. The application itself carries the "DRAFT" designation because we could not find a copy of the application on the Watermaster web site that did not include this.

The Agency has endeavored to provide as complete an application as possible. For the wells in the vicinity, we endeavored to garner as much water level and water quality data as was available from all well owners. We have provided six copies of the application package—one for each member of the Watermaster Board and one for yourself. If you require additional copies, please let me know.

I would be happy to answer any questions regarding this application from yourself or the Watermaster Board. Please place this item on the agenda for the next available Watermaster meeting.

Very truly yours,

A handwritten signature in black ink, appearing to read "Jeffrey Ferre".

**BEAUMONT BASIN WATERMASTER  
APPLICATION  
FOR  
GROUNDWATER STORAGE AGREEMENT**

**1.- APPLICANT INFORMATION**

Name of Applicant: San Geronimo Park Water Agency  
 Address for Notice: 1210 Beaumont Ave, Beaumont 92223  
 Contact Name: Jeff Davis  
 Title: General Manager  
 Telephone: 951-945-2577  
 Fax: 951-945-0281  
 E-mail Address: jdavis@sgpwa.com  
 Date of Application: \_\_\_\_\_

For Staff Use Only	
Date Requested:	_____
Date Approved:	_____
Amount Requested:	_____ ac-ft
Amount Approved:	_____ ac-ft
Agreement No.	_____
Yes [ ] - No [ ]	Analysis and Written Summary Fee Collected

**2.- PROJECT DESCRIPTION – Provide a general description of the groundwater storage project sought under this application including potential impacts and benefits. (Use additional pages if necessary).**

See attached

\_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
 APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553398.1 -- N1356.1

3.- AMOUNT REQUESTED: 10,600 acre feet.

4.- PURPOSE OF STORAGE

- ☐ Stabilize or reduce future water cost / assessments
- ☒ Facilitate utilization of other available sources of supply
- ☐ Facilitate replenishment under certain well sites
- ☐ Preserve pumping right for a changed future potential use
- ☐ Other, explain \_\_\_\_\_

5.- METHOD OF PLACEMENT IN STORAGE

- ☒ Artificial Recharge
- ☐ Transfer of Water from One Storage Account to Another Storage Account (If checked, proceed to No. 16 below)

6.- SOURCE OF WATER FOR RECHARGE

- ☒ State Water Project ☐ Colorado River
- ☐ Captured Storm Water ☐ Recycled Water

☒ Other, explain Other supplemental water equal or better in quality than SWP water.

Has any portion of the water proposed for storage been characterized as reclaimed water, production from the Beaumont Basin, production from another basin, or in any way claimed as part of a water right or entitlement of any other person or entity? Yes ☐ - No ☒ If YES, please explain in detail.

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER; APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553398.1 -- N1336.1

7.- RECHARGE SOURCE WATER QUALITY – Provide a copy of the latest full Title 22 drinking water analysis report documenting the quality of water to be stored as Attachment A to this Application. *See attached.*

8.- METHOD OF RECHARGE

- ☒ Surface Spreading Basin(s)
- ☐ Injection Well(s)

9.- METHOD OF CONVEYANCE FROM SOURCE TO RECHARGE FACILITY

- ☐ Open Unlined Channel
- ☐ Open Lined Channel
- ☒ Pipeline

10.- LOCATION VICINITY MAP – Include as an Attachment B to this Application a project location map at a scale of 1-inch = 2,000 ft or larger. Map shall include, as a minimum, the following, where applicable: *See attached.*

- ✓ Proposed recharge facilities
- ✓ Existing production, monitoring, and abandoned wells within one mile of project site
- ✓ Existing or proposed raw water conveyance facilities
- ✓ Existing creeks and other water features

11.- CURRENT GROUNDWATER LEVELS – Provide quantitative 5-yr history of static (non-pumping) groundwater levels in the vicinity of proposed storage location. Include groundwater level hydrographs for two or more existing wells located down-gradient of recharge site and within a one-mile radius of proposed storage site. Attach responses as Attachment C to this Application. *See attached.*

12.- CURRENT GROUNDWATER QUALITY – Provide quantitative description of current groundwater quality conditions in the vicinity of proposed storage location including water quality trends for TDS and Nitrate over the last five years. Include copies of the most recent drinking water quality reports for two or more existing wells located down-gradient of recharge site and within a one-mile radius of proposed storage site. Attach responses as Attachment D to this Application. *See attached.*

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER; APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553328.1 -- NI 156.1

- 13.- WATER QUANTITY – Provide an estimate of the quantity of water to be stored on an annual basis including estimates for maximum and minimum annual amounts. (Provide attachments to this Application as Attachment E for full response as necessary)

See attached

- 14.- IMPACTS TO OTHERS – Describe in detail any potential positive/negative impacts to any party to the Stipulated Judgment or any person, entity or property located within or outside the Beaumont Basin that may result from the implementation of this project. (Provide attachments to this Application as Attachment F for full response as necessary)

See attached.

- 15.- ENVIRONMENTAL REVIEW – Indicate whether the proposed water storage operation is subject to review under the California Environmental Quality Act? If so, describe the means of CEQA compliance and attach environmental review documentation and any responsive written review as Attachment G to this Application. If not, identify the basis for non-application and/or exemption.

See attached resolution and CD.

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553308.1 -- N1356.1



## 16.- TRANSFERS OF WATER FROM ONE STORAGE ACCOUNT TO ANOTHER

From: See attached.

To: \_\_\_\_\_

17. – CRITERIA ESTABLISHED BY WATERMASTER RESOLUTION 2005-01 – If the Applicant is not an Appropriator pursuant to Exhibit C of the 2004 Stipulated Judgment in Riverside Superior Court Case No. RIC 389197 that created Watermaster, provide a complete, narrative response to each of the criteria identified in Section 2 Preferred Groundwater Storage and Section 3 Types of Groundwater Storage Programs of Watermaster Resolution No. 2005-01, which can be found on the website: [www.beaumontbasinwatermaster.org](http://www.beaumontbasinwatermaster.org) under the tab "Documents & Publications" (Provide attachments to this Application as Attachment H for full response as necessary)

See attached.

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553398.1 -- N1356.1

# 18. LIST OF ATTACHMENTS

## Required Attachments

- A.- Complete Title 22 Drinking Water Analysis (Per Section 7)
- B.- Vicinity Map – Minimum Scale: 1"=2,000 ft (Per Section 10)
- C.- 5-year history of static water levels in the vicinity of project recharge facilities (Per Section 11)
- D.- Current groundwater quality in the vicinity of project recharge facilities (Per Section 12)
- E.- Annual estimates of water to be recharged (Per Section 13)
- F.- Description of positive or negative impacts resulting from project implementation (Per Section 14)
- G.- Environmental Review Documentation (Per Section 15)

## Additional Attachments (as Applicable and/or Necessary)

- H.- Watermaster Resolution No. 2005-01 Supporting Documentation (Per Section 17)
- I.- \_\_\_\_\_
- J.- \_\_\_\_\_
- K.- \_\_\_\_\_
- L.- \_\_\_\_\_
- M.- \_\_\_\_\_
- N.- \_\_\_\_\_

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
 APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553398.1 -- N1356.1

**Beaumont Basin Watermaster**  
**Application for Groundwater Storage Agreement**  
**San Gorgonio Pass Water Agency**  
**Supplemental Information**

**2. PROJECT DESCRIPTION**

The San Gorgonio Pass Water Agency's Beaumont Avenue Recharge Facility is a planned conjunctive use facility located at the southwest corner of Beaumont Avenue and Brookside Avenue in Beaumont. The planned facility consists of five recharge ponds, an approximately 8000 foot long pipeline, and a 20-cfs connection to the East Branch Extension.

The Agency is constructing the facility in order to be able to take advantage of the additional water available through the State Water Project in wet years. Its planned operation would be for the Agency to purchase water in wet years that would or could not be purchased by local retail agencies, or that is purchased by a retail water agency that does not have access to a recharge facility. For water that is purchased by others, it would go directly into their storage account. For any water purchased by the Agency, whether it is Table A water, Article 21 water, or any other type of water, it would be placed into the Agency's proposed storage account, to be later purchased in situ by a local retail water agency that has its own storage account. In this case, purchase of the water from the Agency would be a transfer of the water from the Agency's storage account to the retail water agency's storage account.

The Agency does not own or operate any extraction facilities, so the Agency would not extract any of the water from its storage account. The sole purpose of the storage account would be to temporarily store water purchased by the Agency until it is purchased by (transferred to) a local retail water agency that has a storage account in the Beaumont Basin.

The Agency foresees no negative impacts on the Beaumont Basin or any member of the Watermaster through the construction and operation of this facility. Rather, it increases the ability of Watermaster and its members to bring supplemental water into the basin. With the completion of Phase 2 of the East Branch Extension, the Agency will have 64 cfs of capacity to import water to the region. At the present time only 20 cfs can be removed from the pipeline for beneficial use as groundwater recharge. Thus, additional connected capacity is required in order to take advantage of the additional carrying capacity being constructed in Phase 2 of the East Branch Extension.

### **3. AMOUNT REQUESTED**

At this time, the Agency is only requesting 10,000 AF for its storage account. If at some point in the future it would be beneficial to the region to increase this volume, the Agency would at that time apply to the Watermaster to increase the volume of the storage account.

The Agency feels that 10,000 should be sufficient for the immediate future, as it is expected that any water purchased by the Agency for its storage account would be purchased very shortly thereafter by a member of the Watermaster. Thus, water is not expected to stay in the account for long.

#### **4. PURPOSE OF STORAGE**

The overall purpose of the storage is to augment the total storage in the basin. A secondary purpose is to facilitate utilization of other available sources of supply, such as Article 21 water or other water sources that the Agency may import to the region.

**5. METHOD OF PLACEMENT IN STORAGE**

See Application

**6. SOURCE OF WATER FOR RECHARGE**

See Application

**7. RECHARGE SOURCE WATER QUALITY**

Even though the water will not be used for potable purposes, attached is a Title 22 water quality analysis on water from Silverwood Lake, which is the source of the water that will be recharged in this proposed facility (it is also the source for all water delivered by the Agency to Watermaster members). The data is for 2004 through 2013 and is derived from the Metropolitan Water District of Southern California.

The data indicate that the source water is equal to or better than ambient basin water quality.

**8. METHOD OF RECHARGE**

See Application

**9. METHOD OF CONVEYANCE FROM SOURCE TO RECHARGE FACILITY**

See Application.

**10. LOCATION VICINITY MAP**

See attached map.

**11. CURRENT GROUNDWATER LEVELS**

See attached Excel spread sheet, which includes all available groundwater level data for the six selected wells from 2009 through 2014.

**12. CURRENT GROUNDWATER QUALITY**

See attached Excel spread sheet, which includes nitrate and TDS data available from the six selected wells from 2009 through 2015.

### **13. WATER QUANTITY (Attachment E)**

The volume of water recharged in any year could vary from zero (in some years) to as much as 13,000 acre-feet (well in the future). The 13,000 acre-feet comes from the capacity of the connection (20 cfs). This could only happen in the future when our capacity in EBX has increased and when we have procured additional sources of water.

In the near term (the next 10-12 years), the most that we would expect to recharge would be 7,500 acre-feet per year. This would only occur in a year when we get 100% allocation from the state and there is additional Article 21 water available in that year. Or, alternatively, it could occur in a year when we get a high SWP allocation (80% or higher), plus Article 21 water, plus additional water that we would obtain in the future by purchase, transfer, or exchange.

It is likely that most of this water will go directly into storage accounts of Watermaster members who would purchase the water from the Agency. Any water available to the region that is not purchased by retail water districts would be purchased by the Agency and placed into the Agency's storage account, from where it would be transferred to a Watermaster member upon purchase.

#### **14. IMPACTS TO OTHERS (Attachment F)**

The impacts to others would only be positive. Storing more water in the ground than could otherwise be placed there will raise groundwater elevations, helping to preserve the basin and reducing pumping costs to appropriators and overlayers alike. It is anticipated that most or all water in the account will be transferred to an account of a Watermaster member within a short time.

Basin losses due to use of this proposed facility are anticipated to be minimal or nonexistent.

During the EIR we analyzed potential damage to any homes that might be constructed on adjacent land in the future and found that this would not occur.



**15. ENVIRONMENTAL REVIEW (Attachment G)**

See attached EIR on CD, certified by the Agency Board of Directors on October 21, 2013. Also attached is Agency Resolution 2013-13, certifying the EIR.

**RESOLUTION NO. 2013-13****A RESOLUTION OF THE SAN GORGONIO PASS WATER AGENCY CERTIFYING THE DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT; ADOPTING ENVIRONMENTAL FINDINGS PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT; ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM; ADOPTING A STATEMENT OF PROJECT BENEFITS; AND APPROVING THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT**

**WHEREAS**, the San Gorgonio Pass Water Agency (the "Agency" or "SGPWA") is a state water contractor, that was formed with the purpose of importing water from the State Water Project ("SWP") into the San Gorgonio Pass area in 1961, the Agency's service area encompasses approximately 228 square miles and includes the Cities of Beaumont, Calimesa, and Banning, as well as the unincorporated areas of Cherry Valley, Cabazon, Poppet Flat, Banning Bench, and San Timoteo and Live Oak Canyons; and

**WHEREAS**, the most heavily developed portion of the Agency's service area, the Beaumont Basin, is currently experiencing an overdraft condition; and

**WHEREAS**, In 2003, Phase I of SWP's East Branch Extension ("EBX") was completed, bringing raw SWP water into SGPWA's service area; however, the capacity of Phase I allows for a maximum of approximately 12,000 acre feet per year ("AFY") of the Agency's existing SWP supply contract Table A amount (17,300 AFY); and

**WHEREAS**, In response to these conditions, the Agency proposes to construct a groundwater recharge facility on a vacant, undeveloped property in the City of Beaumont, California, to increase recharge capabilities with the delivery SWP water, as well as other supplemental water sources via a proposed pipeline and service connection facility and to enable the Agency to replenish the groundwater basin and provide water supply for the ongoing and projected needs of the Agency's service area (the "Project").

**WHEREAS**, pursuant to section 21067 of the Public Resources Code, and section 15367 of the State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.), the Agency is the lead agency for the Project; and

**WHEREAS**, the Agency solicited comments, including details about the scope and content of the environmental information, as well as potential feasible mitigation measures, from responsible agencies, trustee agencies, and the public, in a Notice of Preparation ("NOP") for the EIR for the Project, which was issued on November 13, 2012 and circulated for a period of 30 days pursuant to State CEQA Guidelines sections 15082, subdivision (a) and 15375; and

**WHEREAS**, the Agency's Statement of Project Benefits is attached hereto as Exhibit "B"; and

**WHEREAS**, the Agency's Mitigation Monitoring and Reporting Program setting forth the mitigation measures to which the Agency shall bind itself in connection with the Project is attached hereto as Exhibit "C"; and

**WHEREAS**, the EIR reflects the independent judgment of the Agency and is fully adequate for purposes of making decisions on the merits of the Project; and

**WHEREAS**, the Agency has not received any comments or other information constituting substantial new information requiring recirculation of the EIR pursuant to Public Resources Code section 21092.1 and State CEQA Guidelines section 15088.5; and

**WHEREAS**, on October 21, 2013 the Agency conducted a duly noticed public meeting at which the Project was considered, at which time all persons wishing to testify were heard, and the Project was fully considered; and

**WHEREAS**, all other legal prerequisites to the adoption of this Resolution have occurred.

**THE BOARD OF DIRECTORS OF THE SAN GORGONIO PASS WATER AGENCY  
DOES HEREBY RESOLVE AS FOLLOWS:**

**SECTION 1 – Consideration of EIR.** The Agency finds that it has reviewed and considered the EIR (including the comment letters, responses to comments, and errata) in evaluating the Project's potential impacts; that the EIR has been completed in full compliance with CEQA, the State CEQA Guidelines, and the Agency's local procedures for implementing CEQA; and that the EIR reflects the independent judgment and analysis of the Agency.

**SECTION 2 - Recirculation.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby finds that no evidence of new significant impacts or any other "significant new information" as defined by State CEQA Guidelines section 15088.5 has been received by the Agency after circulation of the Draft EIR which would require recirculation.

**SECTION 3 – CEQA Findings.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the written CEQA Findings attached hereto as Exhibit "A" to this Resolution.

**SECTION 4 – Project Benefits.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the Statement of Project Benefits attached as Exhibit "B" to this Resolution.

**SECTION 5 – Certification of EIR.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby certifies the EIR and finds that the implementation of the Project will not have any significant and unavoidable environmental effects. All potentially significant environmental impacts have been analyzed

in the EIR and will be mitigated to a level of less than significant. Additionally, the Board finds that a range of reasonable and potentially feasible alternatives to the Project were fully analyzed in the EIR, but are rejected in favor of the Project.

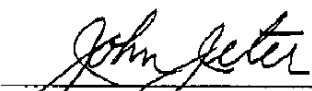
**SECTION 6 - MMRP.** Pursuant to Public Resources Code section 21081.6, the Agency adopts the Mitigation Monitoring and Reporting Plan attached as Exhibit "C" to this Resolution. In the event of any inconsistencies between the mitigation measures as set forth in the EIR or the CEQA Findings in Exhibit A and the Mitigation Monitoring and Reporting Plan, the Mitigation Monitoring and Reporting Plan shall control.

**SECTION 7 – Project Approval.** Based on the entire record before the Agency, all written and oral evidence presented, the CEQA Findings, the Statement of Project Benefits, and Mitigation Monitoring Reporting Plan, and all other evidence, the Agency hereby approves the Beaumont Avenue Recharge Facility and Pipeline Project.

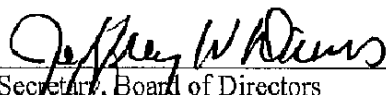
**SECTION 8 – Custodian of Record.** The documents and materials that constitute the record of proceedings on which this Resolution has been based are located at the San Geronio Pass Water Agency, 1210 Beaumont Ave., Beaumont, CA 92223. The custodian for these records is Jeff Davis, General Manager. This information is provided in compliance with Public Resources Code section 21081.6.

**SECTION 9 – Notice of Determination.** Agency staff shall cause a Notice of Determination to be filed and posted with the Clerk of the County of Riverside and the State Clearinghouse within five (5) working days of Project approval.

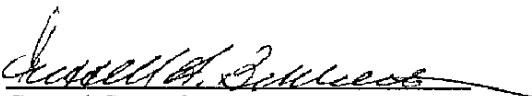
**ADOPTED AND APPROVED** this 21<sup>st</sup> day of October, 2013.

  
\_\_\_\_\_  
President, Board of Directors  
San Geronio Pass Water Agency

ATTEST:

  
\_\_\_\_\_  
Secretary, Board of Directors  
San Geronio Pass Water Agency

APPROVED AS TO FORM:

  
\_\_\_\_\_  
General Counsel  
San Geronio Pass Water Agency

## **16. TRANSFERS OF WATER FROM ONE STORAGE ACCOUNT TO ANOTHER**

We anticipate that virtually all of the water that will be placed in this storage account will be transferred to storage accounts of Watermaster members via purchase of the water from the Agency.

## **17. CRITERIA ESTABLISHED BY WATERMASTER RESOLUTION 2005-01**

Watermaster Resolution 2005-01 establishes principles of groundwater storage in the Beaumont Basin by non-Appropriators. The Agency is a non-Appropriator.

Section 2 of this resolution identifies groundwater storage projects that are given a preference. The following addresses each of the various types of storage and how the Agency's proposed project relates to that type of storage.

- a. Increase the reliability of water supplies. The Agency's proposed project will increase the reliability of water supplies by both providing additional storage capacity in the Basin and by providing additional connected capacity to the State Water Project. More water would be able to be stored in wet years, thus increasing the reliability of available supplies.
- b. Reduce the cost of enhancing the reliability of water supplies. The Agency's proposed facility will be funded up front with general fund revenues, to be reimbursed later (80% of costs) with developer fees. The cost of the project is not borne by water ratepayers, but by new growth and by general fund tax revenues that will be spent on this project as opposed to other expenditures that do not enhance reliability. Thus, the overall cost of enhancing reliability will be reduced for water ratepayers.
- c. Is proposed by, or is conducted for the benefit of, ratepayers. This project is proposed by the Agency and will benefit any purveyor that has a storage account in the Beaumont Basin, along with the ratepayers of those purveyors. While proposed as a project that benefits the entire region, it would have the benefit of benefitting ratepayers as the region would get additional storage and enhanced reliability without the use of ratepayer funds.
- d. Financially benefit ratepayers. The Agency's proposed project does not directly benefit water ratepayers but indirectly benefits them as additional storage would be made available using funds that are not from water rates.
- e. Will not injure existing Overlying and Appropriative Water Rights. The proposed project would not injure any party as it does not draw water out of the basin but enables any local water purveyor to add to storage in the basin. All appropriators and overlies should benefit from additional storage and from more reliability.
- f. Will not waste water. The proposed project is intended to prevent wasting water by enabling any party in the region, including any retail water purveyor or the Agency, to import all available water in wet years so that no State Water Project water gets left in Northern California to potentially be wasted in a future year.
- g. Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin. The intent of the project is to enable the region to store more water, not necessarily to generate revenues.
- h. Will not impair future opportunities to store water in the Beaumont Basin. There is no reason that the proposed project would impair future opportunities to store water in the Beaumont Basin. If constructed, it would not prohibit any entity from constructing additional storage facilities, if needed. Studies indicate that it will not impact the ability of BCVWD to store water at its facility adjacent to the proposed site.

Section 3 of the resolution addresses types of storage projects, and states that the Watermaster will consider two types of storage programs:

- Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin—revenue generated thereby shall be used to fund capital facilities; and
- Projects which proposed the sale of Temporary Surplus—revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.

Agency staff has discussed this with Watermaster staff and it is not immediately clear to either what this section of the resolution is referring to. Agency staff has tried to determine if any other entity has addressed this issue in any previous application or related to construction of any facility, and has been unable to find a record of this.

Agency staff would be pleased to discuss this issue with the Watermaster so that this may be fully addressed as part of this application.

## **Attachment A**



Year	Units	Minimum Reporting Limit	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average
Aluminum	ug/L	10	102	111	178	41	43	26	57	125	38	32	75
Antimony	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/L	0.5	2.5	2.1	1.9	2.6	3.7	4.0	2.8	1.6	2.1	2.9	2.6
Barium	ug/L	5	34	37	28	36	39	34	30	26	30	36	33
Beryllium	ug/L	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/L	0.1	0.0	0.4	0.9	0.0	0.0	0.0	0	0	0	0	0.1
Chromium	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium-6	ug/L	0.03	0.1	0.1	0.1	0.2	0.6	0.4	0.24	0.06	0.1	0.18	0.2
Copper	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	ug/L	50	75	119	ND	ND	ND	ND	ND	88	ND	ND	ND
Lead	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	ug/L	5	14	17	19	22	18	24	16	16	24	24	19
Mercury	ug/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/L	2	ND	ND	ND	ND	3.0	2.5	ND	ND	ND	ND	ND
Nickel	ug/L	2	ND	2.5	2.0	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	ug/L	20	201	219	163	223	294	248	194	151	186	258	214
Thallium	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/L	1	5.0	4.2	3.2	4.5	7.2	6.7	4.4	3	3.3	4.8	4.6
Zinc	ug/L	20	ND	ND	21.5	ND	ND	ND	ND	ND	ND	ND	ND
Average Annual values													

	GROSS ALPHA	GROSS BETA	RADIUM226	RADIUM228	COMBINED RADIUM	STRONTIUM90	TRITIUM	TOTAL URANIUM	RADON222
Minimum Reporting Limit	3	4	1	1	1	2	1000	1	100
Year Sampled									
2011	ND	4.4	ND	ND	ND	ND	ND	1	ND
2008	3.5	4.2	ND	ND	ND	ND	ND	2.7	ND
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Units - picoCuries per liter (pCi/L)									
Average annual values									

SITE/LOC	SAMPLE DATE	Perchlorate	MBAS	Asbestos	Cyanide	Odor
Minimum Reporting Limit		2	0.05	0.2	0.01	1
Units		ug/L	mg/L	mF/l	mg/L	
SILVERWOOD LAKE	April-05	ND	ND		ND	12
SILVERWOOD LAKE	June-05		ND			
SILVERWOOD LAKE	July-05	ND				
SILVERWOOD LAKE	October-05			ND		
SILVERWOOD LAKE	October-05	ND				
SILVERWOOD LAKE	January-06	ND				
SILVERWOOD LAKE	April-06	ND	ND		ND	12
SILVERWOOD LAKE	July-06	ND				
SILVERWOOD LAKE	October-06	ND		ND		
SILVERWOOD LAKE	January-07	ND				
SILVERWOOD LAKE	April-07	ND	ND		ND	14
SILVERWOOD LAKE	July-07	ND				
SILVERWOOD LAKE	October-07	ND		ND		
SILVERWOOD LAKE	January-08	ND				
SILVERWOOD LAKE	April-08	ND	ND		ND	12
SILVERWOOD LAKE	July-08	ND				
SILVERWOOD LAKE	October-08	ND		ND		
SILVERWOOD LAKE	January-09	ND				
SILVERWOOD LAKE	April-09	ND	0.05	ND	ND	8
SILVERWOOD LAKE	July-09	ND				
SILVERWOOD LAKE	October-09	ND				
SILVERWOOD LAKE	January-10	ND				
SILVERWOOD LAKE	April-10	ND	ND		ND	14
SILVERWOOD LAKE	July-10	ND				
SILVERWOOD LAKE	January-11	ND				
SILVERWOOD LAKE	April-11	ND	ND		ND	12
SILVERWOOD LAKE	July-11	ND				
SILVERWOOD LAKE	January-12	ND				
SILVERWOOD LAKE	April-12	ND	ND		ND	12
SILVERWOOD LAKE	July-12	ND				
SILVERWOOD LAKE	October-12	ND				
SILVERWOOD LAKE	January-13	ND				
SILVERWOOD LAKE	April-13	ND	ND		ND	12
SILVERWOOD LAKE	July-13	ND			ND	
SILVERWOOD LAKE	October-13	ND				
<b>AVERAGE</b>		ND	ND	ND	ND	12

<b>Volatile Organic Compounds</b>	<b>2004-2013</b>
Benzene	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane (Methyl bromide)	ND
sec-Butylbenzene	ND
n-Butylbenzene	ND
tert-Butylbenzene	ND
Carbon Tetrachloride	ND
Chlorobenzene or monochlorobenzene	ND
Chlorodibromomethane*	ND
Chloroethane	ND
Chloroform	ND
Chloromethane or methyl chloride	ND
2-Chlorotoluene or o-Chlorotoluene	ND
4-Chlorotoluene or p-Chlorotoluene	ND
Dibromomethane	ND
1,2-Dichlorobenzene (o)	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene (p)	ND
1,2-Dichloroethane	ND
1,1-Dichloroethane	ND
1,1-Dichloroethene	ND
cis-1,2-Dichloroethene	ND
trans-1,2-Dichloroethene	ND
Dichlorodifluoromethane (FREON 12)	ND
1,2-Dichloropropane	ND
1,3-Dichloropropane	
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
1,3-Dichloropropene (or 1,3-Dichloropropylene)	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
ETBE (Ethyl tertiary butyl ether)	ND
Ethylbenzene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
p-Isopropyltoluene	ND
MEK (or 2-BUTANONE)	ND
Methylene Chloride	ND
MTBE	ND
Naphthalene	ND
Nitrobenzene	ND

n-Propylbenzene	ND
Styrene	ND
TAME (Tertiary amyl methyl ether)	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,2,3-Trichlorobenzene	ND
1,2,4-Trichlorobenzene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene (or trichloroethylene)	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (FREON 113)	ND
1,3,5-Trimethylbenzene	ND
1,2,4-Trimethylbenzene	ND
Vinyl Chloride	ND
Xylenes (single isomer or sum of isomers)	ND
m,p-xylene	ND
o-xylene	ND
<b>Organochlorine Pesticides</b>	
Alachlor	ND
Aldrin	ND
Chlordane	ND
Chlorothalonil	ND
Dieldrin	ND
Endrin	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Hexachlorobenzene	ND
Hexachlorocyclopentadiene	ND
Lindane	ND
Methoxychlor	ND
Polychlorinated Biphenyls	ND
Propachlor	ND
Toxaphene	ND
<b>Fumigants</b>	
Ethylene dibromide (EDB)	ND
Dibromochloropropane (DBCP) (1,2-dibromo-3-chloropropane)	ND
<b>Organochlorine Herbicides</b>	

Bentazon	ND
2,4-D	ND
Dalapon	ND
Dicamba	ND
Dinoseb	ND
Pentachlorophenol	ND
Picloram	ND
Silvex	ND
<b>Carbamate Pesticides</b>	
Diuron	ND
Aldicarb	ND
Aldicarb sulfone	ND
Aldicarb sulfoxide	ND
Baygon (aka Propoxur)	ND
Carbofuran	ND
Carbaryl	ND
3-hydroxycarbofuran	ND
Methomyl	ND
Oxamyl (Vydate)	ND
<b>Miscellaneous</b>	
Diquat	ND
Endothall	ND
Glyphosate	ND
2,3,7,8-TCDD Dioxin	ND
<b>Nitrogen/Phosphorus Pesticides</b>	
Atrazine	ND
Bromacil	ND
Butachlor	ND
Diazinon	ND
Dimethoate	ND
Malathion	ND
Metolachlor	ND
Metribuzin	ND
Molinate	ND
Prometryn	ND
Simazine	ND
Thiobencarb	ND

	GROSS ALPHA	GROSS BETA	RADIUM226	RADIUM228	COMBINED RADIUM	STRONTIUM90	TRITIUM	TOTAL URANIUM	RADON222
Minimum Reporting Limit	3	4	1	1	1	2	1000	1	100
Year Sampled									
2011	ND	4.4	ND	ND	ND	ND	ND	1	ND
2008	3.5	4.2	ND	ND	ND	ND	ND	2.7	ND
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND

Units - picoCuries per liter (pCi/L)  
Average annual values

SITE/LOC	SAMPLE DATE	Perchlorate	MBAS	Asbestos	Cyanide	Odor
Minimum Reporting Limit		2	0.05	0.2	0.01	1
Units		ug/L	mg/L	mF/l	mg/L	
SILVERWOOD LAKE	April-05	ND	ND		ND	12
SILVERWOOD LAKE	June-05		ND			
SILVERWOOD LAKE	July-05	ND				
SILVERWOOD LAKE	October-05			ND		
SILVERWOOD LAKE	October-05	ND				
SILVERWOOD LAKE	January-06	ND				
SILVERWOOD LAKE	April-06	ND	ND		ND	12
SILVERWOOD LAKE	July-06	ND				
SILVERWOOD LAKE	October-06	ND		ND		
SILVERWOOD LAKE	January-07	ND				
SILVERWOOD LAKE	April-07	ND	ND		ND	14
SILVERWOOD LAKE	July-07	ND				
SILVERWOOD LAKE	October-07	ND		ND		
SILVERWOOD LAKE	January-08	ND				
SILVERWOOD LAKE	April-08	ND	ND		ND	12
SILVERWOOD LAKE	July-08	ND				
SILVERWOOD LAKE	October-08	ND		ND		
SILVERWOOD LAKE	January-09	ND				
SILVERWOOD LAKE	April-09	ND	0.05	ND	ND	8
SILVERWOOD LAKE	July-09	ND				
SILVERWOOD LAKE	October-09	ND				
SILVERWOOD LAKE	January-10	ND				
SILVERWOOD LAKE	April-10	ND	ND		ND	14
SILVERWOOD LAKE	July-10	ND				
SILVERWOOD LAKE	January-11	ND				
SILVERWOOD LAKE	April-11	ND	ND		ND	12
SILVERWOOD LAKE	July-11	ND				
SILVERWOOD LAKE	January-12	ND				
SILVERWOOD LAKE	April-12	ND	ND		ND	12
SILVERWOOD LAKE	July-12	ND				
SILVERWOOD LAKE	October-12	ND				
SILVERWOOD LAKE	January-13	ND				
SILVERWOOD LAKE	April-13	ND	ND		ND	12
SILVERWOOD LAKE	July-13	ND			ND	
SILVERWOOD LAKE	October-13	ND				
<b>AVERAGE</b>		ND	ND	ND	ND	12



<b>Volatile Organic Compounds</b>	<b>2004-2013</b>
Benzene	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane (Methyl bromide)	ND
sec-Butylbenzene	ND
n-Butylbenzene	ND
tert-Butylbenzene	ND
Carbon Tetrachloride	ND
Chlorobenzene or monochlorobenzene	ND
Chlorodibromomethane*	ND
Chloroethane	ND
Chloroform	ND
Chloromethane or methyl chloride	ND
2-Chlorotoluene or o-Chlorotoluene	ND
4-Chlorotoluene or p-Chlorotoluene	ND
Dibromomethane	ND
1,2-Dichlorobenzene (o)	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene (p)	ND
1,2-Dichloroethane	ND
1,1-Dichloroethane	ND
1,1-Dichloroethene	ND
cis-1,2-Dichloroethene	ND
trans-1,2-Dichloroethene	ND
Dichlorodifluoromethane (FREON 12)	ND
1,2-Dichloropropane	ND
1,3-Dichloropropane	
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
1,3-Dichloropropene (or 1,3-Dichloropropylene)	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
ETBE (Ethyl tertiary butyl ether)	ND
Ethylbenzene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
p-Isopropyltoluene	ND
MEK (or 2-BUTANONE)	ND
Methylene Chloride	ND
MTBE	ND
Naphthalene	ND
Nitrobenzene	ND

n-Propylbenzene	ND
Styrene	ND
TAME (Tertiary amyl methyl ether)	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,2,3-Trichlorobenzene	ND
1,2,4-Trichlorobenzene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene (or trichloroethylene)	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (FREON 113)	ND
1,3,5-Trimethylbenzene	ND
1,2,4-Trimethylbenzene	ND
Vinyl Chloride	ND
Xylenes (single isomer or sum of isomers)	ND
m,p-xylene	ND
o-xylene	ND
<b>Organochlorine Pesticides</b>	
Alachlor	ND
Aldrin	ND
Chlordane	ND
Chlorothalonil	ND
Dieldrin	ND
Endrin	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Hexachlorobenzene	ND
Hexachlorocyclopentadiene	ND
Lindane	ND
Methoxychlor	ND
Polychlorinated Biphenyls	ND
Propachlor	ND
Toxaphene	ND
<b>Fumigants</b>	
Ethylene dibromide (EDB)	ND
Dibromochloropropane (DBCP) (1,2-dibromo-3-chloropropane)	ND
<b>Organochlorine Herbicides</b>	

Bentazon	ND
2,4-D	ND
Dalapon	ND
Dicamba	ND
Dinoseb	ND
Pentachlorophenol	ND
Picloram	ND
Silvex	ND
<b>Carbamate Pesticides</b>	
Diuron	ND
Aldicarb	ND
Aldicarb sulfone	ND
Aldicarb sulfoxide	ND
Baygon (aka Propoxur)	ND
Carbofuran	ND
Carbaryl	ND
3-hydroxycarbofuran	ND
Methomyl	ND
Oxamyl (Vydate)	ND
<b>Miscellaneous</b>	
Diquat	ND
Endothall	ND
Glyphosate	ND
2,3,7,8-TCDD Dioxin	ND
<b>Nitrogen/Phosphorus Pesticides</b>	
Atrazine	ND
Bromacil	ND
Butachlor	ND
Diazinon	ND
Dimethoate	ND
Malathion	ND
Metolachlor	ND
Metribuzin	ND
Molinate	ND
Prometryn	ND
Simazine	ND
Thiobencarb	ND

Year	Units	Minimum Reporting Limit	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average
Aluminum	ug/L	10	102	111	178	41	43	26	57	125	38	37	75
Antimony	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/L	0.5	2.5	2.1	1.9	2.6	3.7	4.0	2.8	1.6	2.1	2.9	2.6
Barium	ug/L	5	34	37	28	36	39	34	30	26	30	36	33
Beryllium	ug/L	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/L	0.1	0.0	0.4	0.9	0.0	0.0	0.0	0	0	0	0	0.1
Chromium	ug/L	1	ND	ND	ND	ND	0.6	0.4	ND	ND	ND	ND	ND
Chromium-6	ug/L	0.03	0.1	0.1	0.1	0.2	0.6	0.4	0.24	0.06	0.1	0.18	0.2
Copper	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	ug/L	50	75	119	ND	ND	ND	ND	ND	88	ND	ND	ND
Lead	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	ug/L	5	14	17	19	22	18	24	16	16	24	24	19
Mercury	ug/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/L	2	ND	ND	ND	ND	3.0	2.5	ND	ND	ND	ND	ND
Nickel	ug/L	2	ND	2.5	2.0	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	ug/L	20	201	219	163	223	294	248	194	151	185	258	214
Thallium	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/L	1	5.0	4.2	3.2	4.5	7.2	6.7	4.4	3	3.3	4.8	4.6
Zinc	ug/L	20	ND	ND	21.5	ND	ND	ND	ND	ND	ND	ND	ND

Average Annual values

LOCATION	REPORT DATE	BICARBONATE mg/L	BORON mg/L	BROMIDE mg/L	CALCIUM mg/L	CARBONATE mg/L	CHLORIDE mg/L	COLOR mg/L	FLUORIDE mg/L	FREE CO2 mg/L
SILVERWOOD LAKE	Dec-13	95		0.33	22	0	100		0.1	2.1
SILVERWOOD LAKE	Nov-13	89		0.35	19	0	107		0.1	1.4
SILVERWOOD LAKE	Oct-13	93		0.3	19	0	92	10	0.1	0.7
SILVERWOOD LAKE	Sep-13	85		0.21	20	6	68		0.1	0.2
SILVERWOOD LAKE	Aug-13	84		0.2	23	10	66		0.1	0.2
SILVERWOOD LAKE	Jul-13	100		0.23	25	4	73	7	0.1	0.5
SILVERWOOD LAKE	Jun-13	105		0.23	27	2	71		0.1	0.6
SILVERWOOD LAKE	May-13	111		0.22	28	0	68		0.1	0.8
SILVERWOOD LAKE	Apr-13	110		0.23	28	0	75	12	0.1	0.9
SILVERWOOD LAKE	Mar-13	102		0.22	28	0	77		0.1	1.2
SILVERWOOD LAKE	Feb-13	93		0.27	23	0	84		0	1.1
SILVERWOOD LAKE	Jan-13	90		0.3	18	0	91	7	0	1.8
SILVERWOOD LAKE	Dec-12	90		0.3	17	0	94		0	1.5
SILVERWOOD LAKE	Nov-12	92		0.37	17	0	110		0	1.5
SILVERWOOD LAKE	Oct-12	81		0.25	15	0	76	7	0	1.5
SILVERWOOD LAKE	Sep-12	79		0.16	16	0	56		0.1	1.4
SILVERWOOD LAKE	Aug-12	88		0.16	18	0	55		0	1.1
SILVERWOOD LAKE	Jul-12	95		0.2	22	0	64	7	0	0.9
SILVERWOOD LAKE	Jun-12	96		0.2	22	0	66		0	0.8
SILVERWOOD LAKE	May-12	102		0.22	26	1	72		0.1	0.7
SILVERWOOD LAKE	Apr-12	94		0.25	21	0	80	8	0	0.7
SILVERWOOD LAKE	Mar-12	95		0.26	21	0	86		0	0.9
SILVERWOOD LAKE	Feb-12	90		0.19	19	0	62		0	0.7
SILVERWOOD LAKE	Jan-12	78		0.11	17	0	37	7	0	2.1
SILVERWOOD LAKE	Dec-11	73		0.08	15	0	25		0	1.1
SILVERWOOD LAKE	Nov-11	79		0.07	14	0	23		0	1.5
SILVERWOOD LAKE	Oct-11	73		0.08	14	0	26	7	0	1.4
SILVERWOOD LAKE	Sep-11	70		0.1	14	0	33		0	1.3
SILVERWOOD LAKE	Aug-11	57		0.07	13	0	26		0	1.1

SILVERWOOD LAKE	Jul-11	57		0.08	13	0	28	7	0	1.5
SILVERWOOD LAKE	Jun-11	59		0.07	13	0	24		0	1.1
SILVERWOOD LAKE	May-11	63		0.06	14	0	27		0	1.2
SILVERWOOD LAKE	Apr-11	67		0.1	16	0	32	12	0	1.2
SILVERWOOD LAKE	Mar-11	67		0.08	16	0	31		0	0.6
SILVERWOOD LAKE	Feb-11	66		0.1	15	0	38		0	2.5
SILVERWOOD LAKE	Jan-11	76		0.2	16	0	65	15	0	1.6
SILVERWOOD LAKE	Dec-10	87		0.22	18	0	78		0	1.1
SILVERWOOD LAKE	Nov-10	89		0.28	18	0	91	8	0	1.7
SILVERWOOD LAKE	Oct-10	83	0.1	0.26	17	0	83		0	1
SILVERWOOD LAKE	Sep-10	82		0.15	17	0	51		0	1
SILVERWOOD LAKE	Aug-10	90		0.17	20	0	59		0	0.9
SILVERWOOD LAKE	Jul-10	90		0.19	21	0	62	11	0.1	1.1
SILVERWOOD LAKE	Jun-10	88		0.14	22	0	51		0.1	1.6
SILVERWOOD LAKE	May-10	88		0.15	23	0	49		0.1	2.3
SILVERWOOD LAKE	Apr-10	85		0.18	22	0	51	6	0.1	1.6
SILVERWOOD LAKE	Mar-10	83		0.19	21	0	54		0.1	1.4
SILVERWOOD LAKE	Feb-10	82		0.22	21	0	64		0.1	1
SILVERWOOD LAKE	Jan-10	82		0.24	20	0	69	7	0.1	1.4
SILVERWOOD LAKE	Dec-09	83		0.26	21	0	74		0.1	1.9
SILVERWOOD LAKE	Nov-09	93		0.32	21	0	92		0.1	1.2
SILVERWOOD LAKE	Oct-09	83	0.11	0.28	17	0	87	7	0.1	1.2
SILVERWOOD LAKE	Sep-09	81		0.23	17	0	75		0.1	1.2
SILVERWOOD LAKE	Aug-09	94		0.21	22	1	66		0.1	0.6
SILVERWOOD LAKE	Jul-09	105		0.28	26	0	91	8	0.1	1
SILVERWOOD LAKE	Jun-09	101		0.27	27	0	74		0.2	1.3
SILVERWOOD LAKE	May-09	99		0.27	27	0	75		0.1	0.9
SILVERWOOD LAKE	Apr-09	98	0.16	0.26	26	1	72	6	0.2	0.3
SILVERWOOD LAKE	Mar-09	99		0.26	26	0	72		0.1	1.5
SILVERWOOD LAKE	Feb-09	100		0.28	26	0	78		0.2	3.5
SILVERWOOD LAKE	Jan-09	100		0.26	26	0	77	5	0.1	2.2
SILVERWOOD LAKE	Dec-08	100		0.28	25	0	78		0.1	1.7
SILVERWOOD LAKE	Nov-08	99		0.26	24	0	78		0.1	1.5
SILVERWOOD LAKE	Oct-08	99	0.15	0.24	25	0	75	10	0.1	1.1

SILVERWOOD LAKE	Sep-08	96		0.22	24	2	72		0.1	0.7
SILVERWOOD LAKE	Aug-08	102		0.24	24	0	76		0.1	1.3
SILVERWOOD LAKE	Jul-08	110	0.17	0.26	25	0	79	7	0.1	0.8
SILVERWOOD LAKE	Jun-08	105		0.24	26	0	76		0.1	1
SILVERWOOD LAKE	May-08	105		0.22	26	0	71	13	0.1	0.8
SILVERWOOD LAKE	Apr-08	100	0.19	0.22	27	0	68		0.1	1
SILVERWOOD LAKE	Mar-08	95		0.25	25	0	73		0.1	1.3
SILVERWOOD LAKE	Feb-08	85		0.22	22	0	66		0.1	1.7
SILVERWOOD LAKE	Jan-08	89	0.12	0.27	22	0	78	10	0.13	1.2
SILVERWOOD LAKE	Dec-07	93		0.29	24	0	82		0.13	1.5
SILVERWOOD LAKE	Nov-07	93		0.31	22	0	87		0.12	1.6
SILVERWOOD LAKE	Oct-07	88	0.11	0.33	20	0	92	9	0.1	1.4
SILVERWOOD LAKE	Sep-07	83		0.22	18	0	65		0	0.7
SILVERWOOD LAKE	Aug-07	89		0.16	20	0	50		0.1	1.3
SILVERWOOD LAKE	Jul-07	100	0.15	0.21	23	0	66	5	0.1	1.2
SILVERWOOD LAKE	Jun-07	100		0.2	22	0	63		0	0.8
SILVERWOOD LAKE	May-07	96		0.18	22	0	59		0.1	1.1
SILVERWOOD LAKE	Apr-07	99	0.19	0.21	23	0	70	13	0.1	1.8
SILVERWOOD LAKE	Mar-07	98		0.27	22	0	86		0.11	2
SILVERWOOD LAKE	Feb-07	94		0.31	21	0	95		0	1.4
SILVERWOOD LAKE	Jan-07	93	0.14	0.22	20	0	67	13	0	1.1
SILVERWOOD LAKE	Dec-06	79		0.12	15	0	38		0	1.5
SILVERWOOD LAKE	Nov-06	83		0.1	15	0	31		0	6.9
SILVERWOOD LAKE	Oct-06	81	0.09	0.12	15	0	38	7	0	4
SILVERWOOD LAKE	Sep-06	78		0.14	15	0	42		0	
SILVERWOOD LAKE	Aug-06	72		0.13	15	0	41		0	1.1
SILVERWOOD LAKE	Jul-06	62	0.1	0.1	13	0	32	12	0	2.1
SILVERWOOD LAKE	Jun-06	60		0.07	13	0	25		0.12	1.9
SILVERWOOD LAKE	May-06	61		0.08	14	0	29		0	1.6
SILVERWOOD LAKE	Apr-06	66	0.15	0.1	16	0	37	15	0	1.2
SILVERWOOD LAKE	Mar-06	67		0.13	17	0	44		0	1.4
SILVERWOOD LAKE	Feb-06	68		0.18	16	0	60		0	1.2
SILVERWOOD LAKE	Jan-06	90	0.14	0.28	19	0	88	15	0	2.2
SILVERWOOD LAKE	Dec-05	87		0.2	17	0	63		0	1.4

SILVERWOOD LAKE	Nov-05	88	0.17	16	0	55	12	0	1.6
SILVERWOOD LAKE	Oct-05	88	0.12	18	0	54	12	0	1.1
SILVERWOOD LAKE	Sep-05	85	0.14	17	0	44		0	1.4
SILVERWOOD LAKE	Aug-05	76	0.11	17	0	37		0	1.1
SILVERWOOD LAKE	Jul-05	73	0.14	17	0	43	13	0	1.4
SILVERWOOD LAKE	Jun-05	90	0.17	21	0	61		0	1.7
SILVERWOOD LAKE	May-05	86	0.12	21	0	49		0	2.2
SILVERWOOD LAKE	Apr-05	102	0.22	25	0	56	29	0.1	1.9
SILVERWOOD LAKE	Mar-05	98	0.15	23	0	55		0.1	1.6
SILVERWOOD LAKE	Feb-05	92	0.23	21	0	71		0.11	1.6
SILVERWOOD LAKE	Jan-05	96	0.15	21	0	69	28	0.12	1.5
SILVERWOOD LAKE	Dec-04	95	0.25	22	0	76		0.12	1.5
SILVERWOOD LAKE	Nov-04	93	0.25	20	0	75	12	0.12	1.9
SILVERWOOD LAKE	Oct-04	92	0.21	19	0	64		0.1	1.2
SILVERWOOD LAKE	Sep-04	87	0.17	17	0	55		0.1	1.4
SILVERWOOD LAKE	Aug-04	93	0.19	19	0	59	12	0	1.3
SILVERWOOD LAKE	Jul-04	100	0.21	21	0	67		0	1.2
SILVERWOOD LAKE	Jun-04	99	0.21	22	0	67		0	1
SILVERWOOD LAKE	May-04	93	0.14	21	0	50	13	0	1.2
SILVERWOOD LAKE	Apr-04	93	0.18	22	0	46		0	1.7
SILVERWOOD LAKE	Mar-04	96	0.18	22	0	59		0	1.7
SILVERWOOD LAKE	Feb-04	96	0.29	22	0	90	12	0.1	1.7
SILVERWOOD LAKE	Jan-04	98	0.31	21	0	95		0	1.6
<b>Average</b>		<b>88</b>	<b>0.14</b>	<b>20</b>	<b>0.23</b>	<b>64</b>	<b>11</b>	<b>0.05</b>	<b>1.39</b>



MAGNESIUM mg/L	NITRATE mg/L	PHENOL_ALKA LINITY_AS_CA CO3 mg/L	POTASSIUM mg/L	SILICA mg/L	SODIUM mg/L	SPECIFIC CONDUCTANCE µmho/cm	SULFATE mg/L	TFR_180C (Total Filterable Residue) mg/L	TOC (Total Organic Carbon) mg/L	TEMPERATURE °C
11	1.6	0	2.8	8.6	69	579	39	306	2.53	14
13	0.6	0	3.1	8.4	70	576	33	301	2.63	16
12	0.2	0	3	9.4	63	515	29	283	2.9	20
11	0.4	5	2.5	12.7	52	463	34	253	3.04	24
11	0.2	8	2.6	13.6	53	474	42	268	3.55	23
12	1.3	3	2.7	11.6	58	521	50	293	3.36	23
12	2.2	2	2.6	9.8	57	524	52	291	3.58	20
12	3.5	0	2.6	10.1	56	522	55	297	3.64	17
12	4.4	0	2.8	12	58	562	56	308	3.6	13
12	4.7	0	2.9	12.5	59	542	53	287	3.7	11
12	3.7	0	2.9	13.6	60	506	38	287	3.04	10
13	2.6	0	3	11.2	61	516	29	270	2.46	9
13	1.5	0	3	10.5	61	515	25	280	2.46	14
14	0.7	0	3.3	11.4	67	569	27	302	2.44	18
11	0.4	0	2.5	10	49	434	19	230	2.62	23
10	0.7	0	2.2	11.1	39	342	19	203	2.7	24
10	1.3	0	2.4	11.8	40	368	30	218	3.02	24
11	2.1	0	2.5	13.2	48	456	39	256	3.14	22
11	2.2	0	2.6	11.5	51	482	43	264	3.34	20
11	3.1	1	2.6	11.1	56	519	48	291	3.68	17
12	2.2	0	2.9	9.8	56	498	37	269	3.08	12
13	2.4	0	3.1	9.8	60	529	38	281	3.1	10
11	2.3	0	2.5	10	45	404	33	231	2.98	9
9	2.4	0	1.9	11	31	316	26	180	2.68	9
7	1.9	0	1.5	10.1	23	240	18	138	2.45	11
8	1.3	0	1.5	12.6	21	238	14	140	2.66	19
7	1.1	0	1.6	12	23	241	15	138	2.72	23
8	1.3	0	1.8	11.5	27	266	19	157	2.82	24
6	1.7	0	1.7	11.8	22	228	18	138	2.98	25

6	2	0	1.7	10.5	23	243	22	139	2.76	24
6	0.9	0	1.8	9.4	22	215	17	128	3.37	18
7	1.5	0	2.1	9.3	25	254	26	150	4.14	16
8	2.6	0	1.9	9.9	28	287	31	170	3.98	13
8	2.3		2.1	10.8	27	275	26		4.2	10
8	3.2		2.5	12.7	29	290	25		4.22	10
10	2.9		2.6	12.3	45	403	23		2.92	9
12	2.3		2.8	11.2	55	470	25		2.46	12
13	1.6		3	11.9	60	510	24		2.53	18
12	0.6		2.6	10.2	55	472	22		2.51	22
10	0.8		2.3	10.5	38	358	23		3.04	23
12	2.1		2.4	13.2	45	415	35		3.26	24
11	2.5		2.6	12.1	49	449	40		3.72	22
9	2.7		2.3	11.4	45	420	45		3.47	18
9	3.6		2.5	11.9	46	420	46		3.75	16
8	4		2.2	11.4	44	392	35		2.44	11
8	3.6		2.2	12.3	45	404	32		2.6	10
8	3.3		2.3	11.3	51	424	33		2.46	9
9	3.3		2.4	11	55	465	33		1.95	10
10	2.9		2.5	11.7	56	478	35		2.22	12
12	2		2.9	10.8	65	531	35		2.38	17
12	0.9		2.8	9.7	59	496	25		2.53	19
11	0.6		2.7	10.8	53	438	25		2.78	23
12	1.8		2.7	13.8	50	464	37		3.58	24
13	2.7		3.1	12	69	583	55		3.45	22
9	2.4		2.4	6.9	62	540	52		2.76	17
9	2.4		2.5	6.1	64	533	48		2.64	14
8	2.6		2.3	6.2	61	505	45		2.35	12
9	2.5		2.3	8.1	60	498	43		2.48	13
9	3.5		2.3	10.6	63	527	46		2.04	9
8	3.2		2.4	10.6	64	526	46		2.13	9
9	3		2.4	10.6	63	530	48		2.09	15
10	2.5		2.5	12.1	63	508	47		2.34	17
10	2		2.6	15	57	511	43		2.62	21

11	1.6		2.8	15.1	55	497	40	3.01	24
12	2.9		3	14.9	55	519	42	2.96	24
12	3.1		3	14	58	519	41	2.96	23
11	3.4		2.8	11.4	57	525	45	3.18	18
11	4.2		2.8	11.6	56	527	49	3.53	17
10	5.6		2.8	12.6	57	507	48	3.12	14
9	4.9		2.5	12.4	58	501	43	2.24	10
8	4.6		2.4	13.7	52	454	36	2.63	8
8	4		2.5	12.4	60	499	39	1.88	9
9	3.7		2.7	12.5	61	516	37	1.56	14
10	2.8		2.5	11.6	63	533	33	2.07	17
11	1.6		3	11.2	61	515	28	2.29	20
10	1.3		2.5	13.3	45	395	23	2.72	25
9	2.2		2.4	12.6	39	358	27	2.66	24
11	2.1		2.7	14.2	50	460	35	2.75	23
12	2		2.6	12	50	446	35	2.98	21
12	3.4		2.3	12.4	46	447	39	3.48	17
12	4.4		2.9	14.9	53	497	45	4.28	15
14	4.4		3.2	14.5	58	539	44	3.96	11
15	4		3.4	14.9	62	560	39	3.51	8
12	3.5		2.7	13	48	450	34	2.76	10
9	2.7		2.1	12.6	30	306	22	2.63	13
9	2.1		1.8	12.6	27	275	18	2.46	18
9	1.4		2	12.4	31	308	21	2.74	21
9	1.6		2.2	12.4	33	322	23	2.86	25
9	1.5		2.1	11.9	32	313	24	3.12	24
7	1.5		1.9	11.2	26	260	20	3.3	25
6	1.3		3.3	10.7	22	231	17	3.26	22
7	1.9		2.2	7.7	27	267	30	3.61	16
8	2.8		1.8	8.9	31	309	34	7.95	13
9	3.5		2.2	10.2	36	349	37	5.49	10
10	3.6		2.7	9.4	41	386	30	3.76	11
13	3.4		3.3	12.1	59	517	33	5.77	11
11	2.8		4	11.4	45	417	25	3.82	13

10.5	2		2.4	11.4	39	375	22	2.77	17
11	1.4		2.5	11.5	39	375	24	4.73	21
10	1.9		2.3	13.6	33	338	26	3.31	23
9	2.2		2.1	13.1	30	319	26	3.5	27
9	2.8		2.4	13.7	34	341	30	3.88	25
12	3.2		2.8	11.8	47	449	43	4.24	21
11.5	4		2.5	11	42	424	49	4.86	17
13.5	5.8		3.1	13.8	46	476	54	5.94	14
12.5	6.3		3.3	15.5	44	447	43	6.18	12
12	5.6		3.2	13.8	50	470	33	4.42	9
12	5.4		3	13.2	50	473	34	4.25	10
11.5	3.6		3	11.8	58	489	34	2.92	12
11	2.8		2.8	11	54	463	29	3.04	16
10.5	1.7		2.5	11.8	48	423	26	2.9	22
10	1.5		2.3	13	40	374	22	3.12	24
11.5	2.1		2.6	14.4	46	412	29	3.3	24
13	2.8		2.8	14.5	50	477	38	3.75	24
13.5	2.7		3.1	13.5	50	469	39	3.64	21
12	3.2		2.4	12.3	40	403	39	3.95	19
12	4.6		2.6	14	38	401	41	5.11	17
13	4.4		2.6	14.5	45	449	38	5.09	10
14.5	4.6		3.5	14.1	62	553	42	4.07	9
14	2.6		3.4	10.7	64	554	37	3.31	9
10	2.60	0.58	2.6	11.7	48	435	34	3.24	17

TOTAL_ALKALINITY_ AS_CACO3 mg/L	TOTAL DISS _SOLIDS mg/L	TOTAL_HARDNESS_ AS_CACO3 mg/L	TURBIDITY NTU	PH
78	302	104	0.56	7.88
73	299	100	0.75	8.02
76	274	98	1.1	8.37
80	249	99	1.1	8.88
85	264	106	2.1	8.99
88	288	116	0.88	8.57
90	288	117	0.62	8.46
91	291	118	0.73	8.36
90	303	120	0.65	8.3
84	300	120	0.72	8.17
76	284	108	0.63	8.15
74	274	102	1	7.93
74	270	98	0.78	7.99
75	296	102	0.82	8.01
66	223	84	1.1	7.95
65	194	78	1.1	7.98
72	213	89	1.1	8.13
78	249	101	1.1	8.25
79	257	105	0.92	8.28
86	282	111	1.3	8.38
77	268	104	1.1	8.35
78	281	110	0.88	8.25
74	230	97	0.97	8.31
64	174	81	0.82	7.79
60	138	67	1.3	8.04
65	135	67	1.6	7.95
60	136	66	1.4	7.94
57	151	69	1.7	7.95
47	129	57	3.4	7.95

47	135	57	4.8	7.8
48	124	53	2.4	7.95
52	143	63	3.6	7.96
55	163	69	2	7.98
55	157	68	1.9	8.25
54	166	67	5.8	7.64
62	215	83	2.8	7.89
71	248	94	0.84	8.13
73	267	98	1.6	7.93
68	244	92	1.1	8.13
67	193	82	0.86	8.14
74	234	94	1.4	8.22
74	245	98	1.9	8.13
72	232	93	2.6	7.95
72	235	93	1.6	7.81
70	220	86	1.2	7.95
68	220	84	1.9	8
67	235	87	2.4	8.12
67	244	89	0.81	7.99
68	255	90	0.76	7.87
76	287	100	0.74	8.12
68	255	91	1	8.05
66	235	91	0.83	8.05
79	254	103	1.6	8.46
86	324	117	1	8.24
83	287	106	1.6	8.12
81	284	104	1.4	8.24
82	273	102	1.6	8.71
81	272	100	1.02	8.05
82	289	102	0.44	7.68
82	287	100	0.79	7.88
82	289	106	0.73	7.99
81	289	104	0.71	8.05
81	279	106	1.2	8.19

83	272	108	2	8.41
84	281	110	1	8.13
90	290	112	1.2	8.36
86	285	112	1.1	8.24
86	284	116	0.83	8.34
82	281	110	0.79	8.21
78	275	100	1.4	8.09
70	248	90	2.9	7.93
73	271	92	3.6	8.09
76	278	98	1	8.02
76	278	100	1	7.98
72	272	97	0.95	8.02
68	220	86	1	8.29
73	207	88	1.5	8.05
82	254	106	2.6	8.14
82	249	103	1.1	8.34
79	244	107	1.3	8.16
81	275	112	1	7.95
80	295	114	1.7	7.9
77	301	112	1.2	8.06
76	247	100	0.7	8.13
65	171	78	1.1	7.95
68	158	75	0.97	7.3
66	170	76	0.95	7.53
64	177	82	1.9	
59	173	74	1.8	8.02
51	144	64	3.8	7.7
49	128	56	4.8	7.71
50	149	67	1.4	7.8
54	173	75	1.2	7.97
55	193	80	2.2	7.91
56	207	82	2.8	7.98
74	276	101	26	7.84
71	223	88	0.97	8.02

72	202	83	1.1	7.97
72	205	90	1.2	8.12
70	191	84	1.6	8.01
62	174	80	2.6	8.04
60	189	80	3.3	7.94
74	247	102	4.7	7.95
71	233	100	2.5	7.81
84	268	118	4.6	7.95
80	252	109	5.2	8
75	255	102	6.2	7.98
79	256	102	12	8.04
78	268	102	1.5	8.01
76	252	95	5.3	7.92
75	229	91	0.86	8.09
71	204	84	1.2	8.01
76	230	95	2.3	8.07
82	259	106	3.3	8.14
81	260	111	1.3	8.22
76	226	102	2.1	8.12
76	227	104	7.1	7.97
79	247	108	6.5	7.98
79	301	115	2.1	7.97
80	297	110	4.2	8.02
73	238	94	2.10	8.07



## **Attachment B**

1. BCVWD Well #22. Located on Oak Valley Parkway just east of 960.  
Past 5 year water quality available  
Marginal water level data.  
1 mile southeast of parcel.
2. BCVP&RD Irrigation well. Located at 390 W. Oak Valley Parkway  
No water quality available.  
Very good water level data  
.6-.7 mile southwest of parcel.
3. Oak Valley Golf Course abandoned wellsite.  
No water quality available.  
Marginal water level data.  
1 mile southwest of parcel.
4. BCVWD Well #24. Located on Brookside Ave. just east of Union St.  
Past 5 year water quality available  
Marginal water level data.  
1.3-1.4 mile west of parcel.
5. Michael Joesph well. Located at 11020 Union St.  
No water quality available  
Marginal water level data  
1.3-1.4 mile west of parcel.
6. Michelle Delph well. Located at 11133 Union St.  
No water quality available.  
Very good water level data.  
1.4-1.5 mile west of parcel.



## **Attachment C**

### Historical Water Level Data

[illegible]

## **Attachment D**

## Historical Water Quality Data

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1												Nitrates				
2																
3																
4	BCVWD Well #22	East of 960 Oak Valley Parkway	1 mile SE of parcel	2009	2010	2011	2012	2013	2014	2009	2010	2011	2012	2013	2014	2015
5					200			210		2.9	3.1		3.4	5.1	3.4	3.7
6	BCV&RD Irrigation Well	390 W. Oak Valley Parkway	0.6 miles SW of parcel													
7																
8	Oak Valley Golf Course Abandoned Well		1 mile SW of parcel													
9																
10	BCVWD Well #24	Brookside Avenue east of Union St.	1.3 miles W of parcel							4.5	5.3		6.4	7	6.4	6.4
11																
12	Michael Joseph Well	11020 Union Street	1.3 miles W of parcel													
13																
14	Michelle Delph Well	11133 Union Street	1.4 miles W of parcel						200							8.2

## **Attachment E**



### **13. WATER QUANTITY (Attachment E)**

The volume of water recharged in any year could vary from zero (in some years) to as much as 13,000 acre-feet (well in the future). The 13,000 acre-feet comes from the capacity of the connection (20 cfs). This could only happen in the future when our capacity in EBX has increased and when we have procured additional sources of water.

In the near term (the next 10-12 years), the most that we would expect to recharge would be 7,500 acre-feet per year. This would only occur in a year when we get 100% allocation from the state and there is additional Article 21 water available in that year. Or, alternatively, it could occur in a year when we get a high SWP allocation (80% or higher), plus Article 21 water, plus additional water that we would obtain in the future by purchase, transfer, or exchange.

It is likely that most of this water will go directly into storage accounts of Watermaster members who would purchase the water from the Agency. Any water available to the region that is not purchased by retail water districts would be purchased by the Agency and placed into the Agency's storage account, from where it would be transferred to a Watermaster member upon purchase.

## **Attachment F**

**14. IMPACTS TO OTHERS (Attachment F)**

The impacts to others would only be positive. Storing more water in the ground than could otherwise be placed there will raise groundwater elevations, helping to preserve the basin and reducing pumping costs to appropriators and overlies alike. It is anticipated that most or all water in the account will be transferred to an account of a Watermaster member within a short time.

Basin losses due to use of this proposed facility are anticipated to be minimal or nonexistent.

During the EIR we analyzed potential damage to any homes that might be constructed on adjacent land in the future and found that this would not occur.

## **Attachment G**

**15. ENVIRONMENTAL REVIEW (Attachment G)**

See attached EIR on CD, certified by the Agency Board of Directors on October 21, 2013. Also attached is Agency Resolution 2013-13, certifying the EIR.

**RESOLUTION NO. 2013-13****A RESOLUTION OF THE SAN GORGONIO PASS WATER AGENCY CERTIFYING THE DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT; ADOPTING ENVIRONMENTAL FINDINGS PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT; ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM; ADOPTING A STATEMENT OF PROJECT BENEFITS; AND APPROVING THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT**

**WHEREAS**, the San Gorgonio Pass Water Agency (the "Agency" or "SGPWA") is a state water contractor, that was formed with the purpose of importing water from the State Water Project ("SWP") into the San Gorgonio Pass area in 1961, the Agency's service area encompasses approximately 228 square miles and includes the Cities of Beaumont, Calimesa, and Banning, as well as the unincorporated areas of Cherry Valley, Cabazon, Poppet Flat, Banning Bench, and San Timoteo and Live Oak Canyons; and

**WHEREAS**, the most heavily developed portion of the Agency's service area, the Beaumont Basin, is currently experiencing an overdraft condition; and

**WHEREAS**, in 2003, Phase I of SWP's East Branch Extension ("EBX") was completed, bringing raw SWP water into SGPWA's service area; however, the capacity of Phase I allows for a maximum of approximately 12,000 acre feet per year ("AFY") of the Agency's existing SWP supply contract Table A amount (17,300 AFY); and

**WHEREAS**, in response to these conditions, the Agency proposes to construct a groundwater recharge facility on a vacant, undeveloped property in the City of Beaumont, California, to increase recharge capabilities with the delivery SWP water, as well as other supplemental water sources via a proposed pipeline and service connection facility and to enable the Agency to replenish the groundwater basin and provide water supply for the ongoing and projected needs of the Agency's service area (the "Project").

**WHEREAS**, pursuant to section 21067 of the Public Resources Code, and section 15367 of the State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.), the Agency is the lead agency for the Project; and

**WHEREAS**, the Agency solicited comments, including details about the scope and content of the environmental information, as well as potential feasible mitigation measures, from responsible agencies, trustee agencies, and the public, in a Notice of Preparation ("NOP") for the EIR for the Project, which was issued on November 13, 2012 and circulated for a period of 30 days pursuant to State CEQA Guidelines sections 15082, subdivision (a) and 15375; and

**WHEREAS**, the Agency's Statement of Project Benefits is attached hereto as Exhibit "B"; and

**WHEREAS**, the Agency's Mitigation Monitoring and Reporting Program setting forth the mitigation measures to which the Agency shall bind itself in connection with the Project is attached hereto as Exhibit "C"; and

**WHEREAS**, the EIR reflects the independent judgment of the Agency and is fully adequate for purposes of making decisions on the merits of the Project; and

**WHEREAS**, the Agency has not received any comments or other information constituting substantial new information requiring recirculation of the EIR pursuant to Public Resources Code section 21092.1 and State CEQA Guidelines section 15088.5; and

**WHEREAS**, on October 21, 2013 the Agency conducted a duly noticed public meeting at which the Project was considered, at which time all persons wishing to testify were heard, and the Project was fully considered; and

**WHEREAS**, all other legal prerequisites to the adoption of this Resolution have occurred.

**THE BOARD OF DIRECTORS OF THE SAN GORGONIO PASS WATER AGENCY DOES HEREBY RESOLVE AS FOLLOWS:**

**SECTION 1 – Consideration of EIR.** The Agency finds that it has reviewed and considered the EIR (including the comment letters, responses to comments, and errata) in evaluating the Project's potential impacts; that the EIR has been completed in full compliance with CEQA, the State CEQA Guidelines, and the Agency's local procedures for implementing CEQA; and that the EIR reflects the independent judgment and analysis of the Agency.

**SECTION 2 - Recirculation.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby finds that no evidence of new significant impacts or any other "significant new information" as defined by State CEQA Guidelines section 15088.5 has been received by the Agency after circulation of the Draft EIR which would require recirculation.

**SECTION 3 – CEQA Findings.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the written CEQA Findings attached hereto as Exhibit "A" to this Resolution.

**SECTION 4 – Project Benefits.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the Statement of Project Benefits attached as Exhibit "B" to this Resolution.

**SECTION 5 – Certification of EIR.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby certifies the EIR and finds that the implementation of the Project will not have any significant and unavoidable environmental effects. All potentially significant environmental impacts have been analyzed

in the EIR and will be mitigated to a level of less than significant. Additionally, the Board finds that a range of reasonable and potentially feasible alternatives to the Project were fully analyzed in the EIR, but are rejected in favor of the Project.

**SECTION 6 - MMRP.** Pursuant to Public Resources Code section 21081.6, the Agency adopts the Mitigation Monitoring and Reporting Plan attached as Exhibit "C" to this Resolution. In the event of any inconsistencies between the mitigation measures as set forth in the EIR or the CEQA Findings in Exhibit A and the Mitigation Monitoring and Reporting Plan, the Mitigation Monitoring and Reporting Plan shall control.

**SECTION 7 – Project Approval.** Based on the entire record before the Agency, all written and oral evidence presented, the CEQA Findings, the Statement of Project Benefits, and Mitigation Monitoring Reporting Plan, and all other evidence, the Agency hereby approves the Beaumont Avenue Recharge Facility and Pipeline Project.

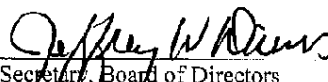
**SECTION 8 – Custodian of Record.** The documents and materials that constitute the record of proceedings on which this Resolution has been based are located at the San Geronio Pass Water Agency, 1210 Beaumont Ave., Beaumont, CA 92223. The custodian for these records is Jeff Davis, General Manager. This information is provided in compliance with Public Resources Code section 21081.6.

**SECTION 9 – Notice of Determination.** Agency staff shall cause a Notice of Determination to be filed and posted with the Clerk of the County of Riverside and the State Clearinghouse within five (5) working days of Project approval.

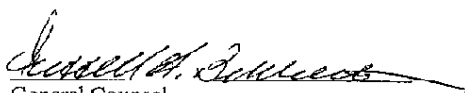
**ADOPTED AND APPROVED** this 21<sup>st</sup> day of October, 2013.

  
\_\_\_\_\_  
President, Board of Directors  
San Geronio Pass Water Agency

ATTEST:

  
\_\_\_\_\_  
Secretary, Board of Directors  
San Geronio Pass Water Agency

APPROVED AS TO FORM:

  
\_\_\_\_\_  
General Counsel  
San Geronio Pass Water Agency



## **Attachment H**

3/29/05

**RESOLUTION NO. 2005-01  
A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER  
ESTABLISHING PRINCIPLES OF GROUNDWATER STORAGE IN THE  
BEAUMONT BASIN BY NON-APPROPRIATORS**

WHEREAS, there exists in the Beaumont Basin a substantial amount of available groundwater storage capacity; and

WHEREAS, such capacity can be reasonably used for storing supplemental water; and

WHEREAS, the Watermaster desires to establish by this Resolution certain fundamental principles governing the future use of such capacity by non-Appropriators,

**NOW, THEREFORE, the Beaumont Basin Watermaster hereby resolves as follows:**

**Section 1. Definitions**

As used herein, these terms shall have the following definitions:

a. **Groundwater Storage Agreement:** a standard form of written agreement between the Watermaster and any Person requesting the storage of Supplemental Water.

b. **Groundwater Storage Capacity:** the space available in the Beaumont Basin that is not utilized for storage or regulation of Safe Yield and is reasonably available for Stored Water and Conjunctive Use.

c. **Person:** any non-appropriator individual, partnership, association, corporation, governmental entity or agency, or other organization.

d. **Storage Program:** Supplemental Water stored in the Beaumont Basin for later use, or the sale of Temporary Surplus.

e. **Stored Water:** Supplemental Water stored in the Beaumont Basin pursuant to a Groundwater Storage Agreement with the Watermaster.

f. **Supplemental Water:** water imported into the Beaumont Basin from outside the Beaumont Basin including, without limitation, water diverted from creeks upstream and tributary to the Beaumont Basin and water which is recycled and useable within the Beaumont Basin.

g. **Temporary Surplus:** the amount of groundwater that can be pumped annually in excess of the Safe Yield of the Beaumont Basin necessary to create enough additional storage capacity to prevent the waste of water.

3/29/05

**Section 2. Preferred Groundwater Storage Projects**

Preference shall be given to groundwater storage projects that:

- a. Increase the reliability of water supplies;
- b. Reduce the cost of enhancing the reliability of water supplies;
- c. Is proposed by, or is conducted for the benefit of, ratepayers;
- d. Financially benefit ratepayers;
- e. Will not injure existing Overlying and Appropriative Water Rights;
- f. Will not waste water;
- g. Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin; and
- h. Will not impair future opportunities to store water in the Beaumont Basin.

**Section 3. Types of Groundwater Storage Programs**

The Watermaster shall consider two types of Storage Programs:

- a. Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin: revenue generated thereby shall be used to fund capital facilities; and
- b. Projects which propose the sale of Temporary Surplus: revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.

**Section 4. Groundwater Storage Agreement**

In order to prevent injury to existing water rights, to prevent the waste of water, and to protect the use of Supplemental Water in storage and the Safe Yield of the Beaumont Basin, no Person may make reasonable beneficial use of the Groundwater Storage Capacity except pursuant to a written Groundwater Storage Agreement with the Watermaster. Without limitation, such Agreements shall include:

- a. The payment of administrative and storage fees to the Watermaster;
- b. The payment of fees for the use of Temporary Surplus;
- c. Accounting for Supplemental Water losses while in storage;
- d. Term limit:

- e. Reasonable limitations on the rates of storage and recovery of Stored Water;
- f. Protection of water quality in the Beaumont Basin.

MOVED, PASSED AND ADOPTED this 12th day of April, 2005, upon the following vote:

City of Banning: Yes  
City of Beaumont: Absent  
Beaumont-Cherry Valley Water District: Yes  
South Mesa Mutual Water Company: Yes  
Yucaipa Valley Water District: Yes

Dated: April 12, 2005

BEAUMONT BASIN WATERMASTER

By /s/ George Jorritsma  
Chair

## **17. CRITERIA ESTABLISHED BY WATERMASTER RESOLUTION 2005-01**

Watermaster Resolution 2005-01 establishes principles of groundwater storage in the Beaumont Basin by non-Appropriators. The Agency is a non-Appropriator.

Section 2 of this resolution identifies groundwater storage projects that are given a preference. The following addresses each of the various types of storage and how the Agency's proposed project relates to that type of storage.

- a. Increase the reliability of water supplies. The Agency's proposed project will increase the reliability of water supplies by both providing additional storage capacity in the Basin and by providing additional connected capacity to the State Water Project. More water would be able to be stored in wet years, thus increasing the reliability of available supplies.
- b. Reduce the cost of enhancing the reliability of water supplies. The Agency's proposed facility will be funded up front with general fund revenues, to be reimbursed later (80% of costs) with developer fees. The cost of the project is not borne by water ratepayers, but by new growth and by general fund tax revenues that will be spent on this project as opposed to other expenditures that do not enhance reliability. Thus, the overall cost of enhancing reliability will be reduced for water ratepayers.
- c. Is proposed by, or is conducted for the benefit of, ratepayers. This project is proposed by the Agency and will benefit any purveyor that has a storage account in the Beaumont Basin, along with the ratepayers of those purveyors. While proposed as a project that benefits the entire region, it would have the benefit of benefitting ratepayers as the region would get additional storage and enhanced reliability without the use of ratepayer funds.
- d. Financially benefit ratepayers. The Agency's proposed project does not directly benefit water ratepayers but indirectly benefits them as additional storage would be made available using funds that are not from water rates.
- e. Will not injure existing Overlying and Appropriative Water Rights. The proposed project would not injure any party as it does not draw water out of the basin but enables any local water purveyor to add to storage in the basin. All appropriators and overlayers should benefit from additional storage and from more reliability.
- f. Will not waste water. The proposed project is intended to prevent wasting water by enabling any party in the region, including any retail water purveyor or the Agency, to import all available water in wet years so that no State Water Project water gets left in Northern California to potentially be wasted in a future year.
- g. Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin. The intent of the project is to enable the region to store more water, not necessarily to generate revenues.
- h. Will not impair future opportunities to store water in the Beaumont Basin. There is no reason that the proposed project would impair future opportunities to store water in the Beaumont Basin. If constructed, it would not prohibit any entity from constructing additional storage facilities, if needed. Studies indicate that it will not impact the ability of BCVWD to store water at its facility adjacent to the proposed site.

Section 3 of the resolution addresses types of storage projects, and states that the Watermaster will consider two types of storage programs:

- Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin—revenue generated thereby shall be used to fund capital facilities; and
- Projects which proposed the sale of Temporary Surplus—revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.

Agency staff has discussed this with Watermaster staff and it is not immediately clear to either what this section of the resolution is referring to. Agency staff has tried to determine if any other entity has addressed this issue in any previous application or related to construction of any facility, and has been unable to find a record of this.

Agency staff would be pleased to discuss this issue with the Watermaster so that this may be fully addressed as part of this application.

# Attachment B

## BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 16-18

**Date:** October 5, 2016

**From:** Hannibal Blandon, ALDA Inc.  
Joseph Zoba, Treasurer

**Subject:** Application by the San Gorgonio Pass Water Agency (SGPWA)  
for a Groundwater Storage Agreement in the Beaumont Basin

**Recommendation:** Pending

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At the April Board meeting, copies of SGPWA's application for a groundwater storage agreement in the Beaumont Basin were distributed to members of the Watermaster Committee for their review.

At the Watermaster meeting on June 1, 2016, the Watermaster Committee discussed the importance of incorporating contingencies into the approval of the storage account to protect the rights and responsibilities of the Watermaster members to fulfill the terms of the Stipulated Judgment.

Based on discussions with Jeff Davis, General Manager of the San Gorgonio Pass Water Agency, there appears to be a common understanding that the following conditions could be included in the storage agreement with the San Gorgonio Pass Water Agency to represent the common goals of the parties:

1. The storage account authorized to the San Gorgonio Pass Water Agency shall not negatively impact, impede, reduce or obstruct the purchase and delivery of supplemental water from the San Gorgonio Pass Water Agency to any water retailer of the Watermaster Committee at any location or time.
2. When the quantity of supplemental water available on an annual basis exceeds all demands and/or requests for supplemental water by the Watermaster Committee members, the San Gorgonio Pass Water Agency may recharge the excess supplemental water in the Beaumont Avenue Recharge Facility or any other location approved by the Beaumont Basin Watermaster.
3. Supplemental water stored by the San Gorgonio Pass Water Agency pursuant to the conditions herein and the approved Storage Agreement will be made available at any time to the members of the Watermaster without restrictions
4. Any member or members of the Watermaster shall maintain the first right of refusal to purchase the supplemental water placed in storage by the San Gorgonio Pass Water Agency. All Watermaster members shall be notified in writing a minimum



of 60 calendar days prior to any sale, transfer, distribution, or exchange of any supplemental water in the storage account of the San Geronio Pass Water Agency. The Watermaster maintains an opportunity to individually or collectively purchase the water in the storage account of the San Geronio Pass Water Agency under the same terms and conditions offered to a member of the Watermaster, non-member of the Watermaster, or any other entity.

5. Any future condition, issue, or operational constraint that conflicts with the ability of any Watermaster member to administer and fulfill their obligation(s) pursuant to the Stipulated Judgment shall be immediate cause for rescinding the storage agreement to the San Geronio Pass Water Agency.

The specific language included in this Watermaster Memorandum is in a draft form and has not been shared with representatives of the San Geronio Pass Water Agency or any Watermaster Committee member. To ensure the Watermaster members retain the unequivocal right and authority to implement the full intent, terms and conditions of the Stipulated Judgment, the language above should be fully discussed and reviewed with our legal counsel as well as the San Geronio Pass Water Agency.

#### Background:

The SGPWA is requesting to store up to 10,000 ac-ft of water in the Beaumont Basin through artificial recharge of water from State Water Project and/or other supplemental water of equal or better quality. The proposed recharge facilities are located in the southwest corner of Brookside Avenue and Beaumont Avenue.

ALDA Inc., in association with Thomas Harder & Company, have conducted an initial review of the documents provided by SGPWA, and would like to offer the following comments for your consideration. Please note that our initial comments are based on our current knowledge of the basin only as no additional calculations or modeling runs have been conducted.

- 1.- Beaumont Basin Watermaster Resolution No. 2005-01 establishes principles of groundwater storage in the Beaumont Basin by Non-Appropriators. The application by SGPWA addresses each of the four sections outlined in the resolution.
- 2.- Currently, there are storage agreements with all Appropriators totaling 260,000 ac-ft. In addition, there is a storage agreement with Morongo Band of Mission Indians, a Non-Appropriator, for 20,000 ac-ft. for an overall total of 280,000 ac-ft. in storage agreements. The request by SGPWA to store up to 10,000 ac-ft. in the basin, if approved, will increase the total storage agreements by 3.57 percent to 290,000 ac-ft.
- 3.- According to the application, the SGPWA will like to construct the spreading facility and take advantage of additional water available through the State Water Project in wet years. The application indicates that the sole purpose of the storage account

would be to temporarily store water purchase by SGPWA until it is purchased by (transferred to) a local retail agency that has a storage account in the Beaumont Basin. Having this water available in SGPWA's account will increase the reliability of supply in the Beaumont Basin as Appropriators could meet their replenishment obligations by buying water from SGPWA through a paper transfer of storage.

- 4.- In the near term (10-12 years), SGPWA plans to store a maximum of 7,500 ac-ft/yr based on 80 percent plus allocation from the State and additional Article 21 water available in that year and/or additional water that SGPWA could obtain by purchase, transfer or exchange. Ultimately, SGPWA would like to store up to 13,000 ac-ft based on the 20 cfs capacity of its connection.
- 5.- The storage of imported water in the central portion of the basin could have a positive impact on local water levels; however, storage losses could potentially increase in the long term.
- 6.- Water quality of the State Water Project is equal to or better than the local groundwater quality in the basin, as documented in the application.

A representative from the SGPWA will be present at the meeting to address any questions that members of the Watermaster Committee may have.



## San Geronio Pass Water Agency

*A California State Water Project Contractor*  
1210 Beaumont Avenue • Beaumont, CA 92223  
Phone (951) 845-2577 • Fax (951) 845-0281

March 14, 2016

**President:**

**John Jeter**

**Vice President:**

**Bill Dickson**

**Treasurer:**

**Mary Ann Melleby**

**Directors:**

**Blair Ball**

**Ron Duncan**

**David Fenn**

**Leonard Stephenson**

**General Manager**

**& Chief Engineer:**

**Jeff Davis, PE**

**Legal Counsel:**

**Jeffrey Ferre**

**Best Best & Krieger**

Mr. Hanibal Blandon  
Alda Engineering  
5928 Vineyard Avenue  
Rancho Cucamonga, CA 91701

Dear Mr. Blandon:

Enclosed please find six copies of an application for a Beaumont Basin Watermaster storage account on behalf of the San Geronio Pass Water Agency. The application itself carries the "DRAFT" designation because we could not find a copy of the application on the Watermaster web site that did not include this.

The Agency has endeavored to provide as complete an application as possible. For the wells in the vicinity, we endeavored to garner as much water level and water quality data as was available from all well owners. We have provided six copies of the application package—one for each member of the Watermaster Board and one for yourself. If you require additional copies, please let me know.

I would be happy to answer any questions regarding this application from yourself or the Watermaster Board. Please place this item on the agenda for the next available Watermaster meeting.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Jeffrey Ferre".

**BEAUMONT BASIN WATERMASTER  
APPLICATION  
FOR  
GROUNDWATER STORAGE AGREEMENT**

**1.- APPLICANT INFORMATION**

Name of Applicant: Sam Gorgonio Pass Water Agency  
 Address for Notice: 1210 Beaumont Ave, Beaumont 92223  
 Contact Name: Jeff Davis  
 Title: General Manager  
 Telephone: 951-945-2577  
 Fax: 951-945-0281  
 E-mail Address: jdavis@sgpwa.com  
 Date of Application: \_\_\_\_\_

For Staff Use Only	
Date Requested:	_____
Date Approved:	_____
Amount Requested:	_____ ac-ft
Amount Approved:	_____ ac-ft
Agreement No.	_____
Yes [ ] - No [ ]	Analysis and Written Summary Fee Collected

**2.- PROJECT DESCRIPTION - Provide a general description of the groundwater storage project sought under this application including potential impacts and benefits. (Use additional pages if necessary).**

See attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
 APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION  
 3153398.1 -- N1356.1

3.- AMOUNT REQUESTED: 10,600 acre feet.

4.- PURPOSE OF STORAGE

- ☐ Stabilize or reduce future water cost / assessments
- ☒ Facilitate utilization of other available sources of supply
- ☐ Facilitate replenishment under certain well sites
- ☐ Preserve pumping right for a changed future potential use
- ☐ Other, explain \_\_\_\_\_

5.- METHOD OF PLACEMENT IN STORAGE

- ☒ Artificial Recharge
- ☐ Transfer of Water from One Storage Account to Another Storage Account (If checked, proceed to No. 16 below)

6.- SOURCE OF WATER FOR RECHARGE

- ☒ State Water Project ☐ Colorado River
- ☐ Captured Storm Water ☐ Recycled Water

☒ Other, explain Other supplemental water equal or better in quality than SWP water.

Has any portion of the water proposed for storage been characterized as reclaimed water, production from the Beaumont Basin, production from another basin, or in any way claimed as part of a water right or entitlement of any other person or entity? Yes ☐ - No ☒ If YES, please explain in detail.

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER; APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553398.1 -- N1356.1

7.- RECHARGE SOURCE WATER QUALITY – Provide a copy of the latest full Title 22 drinking water analysis report documenting the quality of water to be stored as Attachment A to this Application. *See attached.*

8.- METHOD OF RECHARGE

☒ Surface Spreading Basin(s)

☐ Injection Well(s)

9.- METHOD OF CONVEYANCE FROM SOURCE TO RECHARGE FACILITY

☐ Open Unlined Channel

☐ Open Lined Channel

☒ Pipeline

10.- LOCATION VICINITY MAP – Include, as an Attachment B to this Application a project location map at a scale of 1-inch = 2,000 ft or larger. Map shall include, as a minimum, the following, where applicable: *See attached.*

- ☒ Proposed recharge facilities
- ☒ Existing production, monitoring, and abandoned wells within one mile of project site
- ☒ Existing or proposed raw water conveyance facilities
- ☒ Existing creeks and other water features

11.- CURRENT GROUNDWATER LEVELS – Provide quantitative 5-yr history of static (non-pumping) groundwater levels in the vicinity of proposed storage location. Include groundwater level hydrographs for two or more existing wells located down-gradient of recharge site and within a one-mile radius of proposed storage site. Attach responses as Attachment C to this Application. *See attached.*

12.- CURRENT GROUNDWATER QUALITY – Provide quantitative description of current groundwater quality conditions in the vicinity of proposed storage location including water quality trends for TDS and Nitrate over the last five years. Include copies of the most recent drinking water quality reports for two or more existing wells located down-gradient of recharge site and within a one-mile radius of proposed storage site. Attach responses as Attachment D to this Application. *See attached.*

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER. APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

35533081 -- N1356.1

- 13.- WATER QUANTITY – Provide an estimate of the quantity of water to be stored on an annual basis including estimates for maximum and minimum annual amounts. (Provide attachments to this Application as Attachment E for full response as necessary)

See attached.

- 14.- IMPACTS TO OTHERS – Describe in detail any potential positive/negative impacts to any party to the Stipulated Judgment or any person, entity or property located within or outside the Beaumont Basin that may result from the implementation of this project. (Provide attachments to this Application as Attachment F for full response as necessary)

See attached.

- 15.- ENVIRONMENTAL REVIEW – Indicate whether the proposed water storage operation is subject to review under the California Environmental Quality Act? If so, describe the means of CEQA compliance and attach environmental review documentation and any responsive written review as Attachment G to this Application. If not, identify the basis for non-application and/or exemption.

See attached resolution and CD.

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION  
13551308.1 -- N1356.1

16.- TRANSFERS OF WATER FROM ONE STORAGE ACCOUNT TO ANOTHER

From: See attached.

To: \_\_\_\_\_

17. – CRITERIA ESTABLISHED BY WATERMASTER RESOLUTION 2005-01 – If the Applicant is not an Appropriator pursuant to Exhibit C of the 2004 Stipulated Judgment in Riverside Superior Court Case No. RIC 389197 that created Watermaster, provide a complete, narrative response to each of the criteria identified in Section 2 Preferred Groundwater Storage and Section 3 Types of Groundwater Storage Programs of Watermaster Resolution No. 2005-01, which can be found on the website: [www.beaumontbasinwatermaster.org](http://www.beaumontbasinwatermaster.org) under the tab "Documents & Publications" (Provide attachments to this Application as Attachment H for full response as necessary)

See attached.

\_\_\_\_\_

\_\_\_\_\_

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THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
 APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION  
 3353398.1 -- N1356.1



18. LIST OF ATTACHMENTS

Required Attachments

- A.- Complete Title 22 Drinking Water Analysis (Per Section 7)
- B.- Vicinity Map – Minimum Scale: 1"=2,000 ft (Per Section 10)
- C.- 5-year history of static water levels in the vicinity of project recharge facilities (Per Section 11)
- D.- Current groundwater quality in the vicinity of project recharge facilities (Per Section 12)
- E.- Annual estimates of water to be recharged (Per Section 13)
- F.- Description of positive or negative impacts resulting from project implementation (Per Section 14)
- G.- Environmental Review Documentation (Per Section 15)

Additional Attachments (as Applicable and/or Necessary)

- H.- Watermaster Resolution No. 2005-01 Supporting Documentation (Per Section 17)
- I.- \_\_\_\_\_
- J.- \_\_\_\_\_
- K.- \_\_\_\_\_
- L.- \_\_\_\_\_
- M.- \_\_\_\_\_
- N.- \_\_\_\_\_

THIS APPLICATION IS SUBJECT TO REVIEW AND FURTHER CONSIDERATION BY WATERMASTER;  
 APPLICANT IS SOLELY RESPONSIBLE TO PROVIDE WATERMASTER WITH COMPREHENSIVE INFORMATION

3553398.1 -- N1336.1

**Beaumont Basin Watermaster**  
**Application for Groundwater Storage Agreement**  
**San Geronio Pass Water Agency**  
**Supplemental Information**

**2. PROJECT DESCRIPTION**

The San Geronio Pass Water Agency's Beaumont Avenue Recharge Facility is a planned conjunctive use facility located at the southwest corner of Beaumont Avenue and Brookside Avenue in Beaumont. The planned facility consists of five recharge ponds, an approximately 8000 foot long pipeline, and a 20-cfs connection to the East Branch Extension.

The Agency is constructing the facility in order to be able to take advantage of the additional water available through the State Water Project in wet years. Its planned operation would be for the Agency to purchase water in wet years that would or could not be purchased by local retail agencies, or that is purchased by a retail water agency that does not have access to a recharge facility. For water that is purchased by others, it would go directly into their storage account. For any water purchased by the Agency, whether it is Table A water, Article 21 water, or any other type of water, it would be placed into the Agency's proposed storage account, to be later purchased in situ by a local retail water agency that has its own storage account. In this case, purchase of the water from the Agency would be a transfer of the water from the Agency's storage account to the retail water agency's storage account.

The Agency does not own or operate any extraction facilities, so the Agency would not extract any of the water from its storage account. The sole purpose of the storage account would be to temporarily store water purchased by the Agency until it is purchased by (transferred to) a local retail water agency that has a storage account in the Beaumont Basin.

The Agency foresees no negative impacts on the Beaumont Basin or any member of the Watermaster through the construction and operation of this facility. Rather, it increases the ability of Watermaster and its members to bring supplemental water into the basin. With the completion of Phase 2 of the East Branch Extension, the Agency will have 64 cfs of capacity to import water to the region. At the present time only 20 cfs can be removed from the pipeline for beneficial use as groundwater recharge. Thus, additional connected capacity is required in order to take advantage of the additional carrying capacity being constructed in Phase 2 of the East Branch Extension.

### **3. AMOUNT REQUESTED**

At this time, the Agency is only requesting 10,000 AF for its storage account. If at some point in the future it would be beneficial to the region to increase this volume, the Agency would at that time apply to the Watermaster to increase the volume of the storage account.

The Agency feels that 10,000 should be sufficient for the immediate future, as it is expected that any water purchased by the Agency for its storage account would be purchased very shortly thereafter by a member of the Watermaster. Thus, water is not expected to stay in the account for long.

#### **4. PURPOSE OF STORAGE**

The overall purpose of the storage is to augment the total storage in the basin. A secondary purpose is to facilitate utilization of other available sources of supply, such as Article 21 water or other water sources that the Agency may import to the region.

**5. METHOD OF PLACEMENT IN STORAGE**

See Application

**6. SOURCE OF WATER FOR RECHARGE**

See Application

**7. RECHARGE SOURCE WATER QUALITY**

Even though the water will not be used for potable purposes, attached is a Title 22 water quality analysis on water from Silverwood Lake, which is the source of the water that will be recharged in this proposed facility (it is also the source for all water delivered by the Agency to Watermaster members). The data is for 2004 through 2013 and is derived from the Metropolitan Water District of Southern California.

The data indicate that the source water is equal to or better than ambient basin water quality.

**8. METHOD OF RECHARGE**

See Application

**9. METHOD OF CONVEYANCE FROM SOURCE TO RECHARGE FACILITY**

See Application.

**10. LOCATION VICINITY MAP**

See attached map.

**11. CURRENT GROUNDWATER LEVELS**

See attached Excel spread sheet, which includes all available groundwater level data for the six selected wells from 2009 through 2014.

**12. CURRENT GROUNDWATER QUALITY**

See attached Excel spread sheet, which includes nitrate and TDS data available from the six selected wells from 2009 through 2015.

### **13. WATER QUANTITY (Attachment E)**

The volume of water recharged in any year could vary from zero (in some years) to as much as 13,000 acre-feet (well in the future). The 13,000 acre-feet comes from the capacity of the connection (20 cfs). This could only happen in the future when our capacity in EBX has increased and when we have procured additional sources of water.

In the near term (the next 10-12 years), the most that we would expect to recharge would be 7,500 acre-feet per year. This would only occur in a year when we get 100% allocation from the state and there is additional Article 21 water available in that year. Or, alternatively, it could occur in a year when we get a high SWP allocation (80% or higher), plus Article 21 water, plus additional water that we would obtain in the future by purchase, transfer, or exchange.

It is likely that most of this water will go directly into storage accounts of Watermaster members who would purchase the water from the Agency. Any water available to the region that is not purchased by retail water districts would be purchased by the Agency and placed into the Agency's storage account, from where it would be transferred to a Watermaster member upon purchase.

**14. IMPACTS TO OTHERS (Attachment F)**

The impacts to others would only be positive. Storing more water in the ground than could otherwise be placed there will raise groundwater elevations, helping to preserve the basin and reducing pumping costs to appropriators and overlies alike. It is anticipated that most or all water in the account will be transferred to an account of a Watermaster member within a short time.

Basin losses due to use of this proposed facility are anticipated to be minimal or nonexistent.

During the EIR we analyzed potential damage to any homes that might be constructed on adjacent land in the future and found that this would not occur.

**15. ENVIRONMENTAL REVIEW (Attachment G)**

See attached EIR on CD, certified by the Agency Board of Directors on October 21, 2013. Also attached is Agency Resolution 2013-13, certifying the EIR.



**RESOLUTION NO. 2013-13**

**A RESOLUTION OF THE SAN GORGONIO PASS WATER AGENCY CERTIFYING THE DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT; ADOPTING ENVIRONMENTAL FINDINGS PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT; ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM; ADOPTING A STATEMENT OF PROJECT BENEFITS; AND APPROVING THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT**

**WHEREAS**, the San Gorgonio Pass Water Agency (the "Agency" or "SGPWA") is a state water contractor, that was formed with the purpose of importing water from the State Water Project ("SWP") into the San Gorgonio Pass area in 1961, the Agency's service area encompasses approximately 228 square miles and includes the Cities of Beaumont, Calimesa, and Banning, as well as the unincorporated areas of Cherry Valley, Cabazon, Poppet Flat, Banning Bench, and San Timoteo and Live Oak Canyons; and

**WHEREAS**, the most heavily developed portion of the Agency's service area, the Beaumont Basin, is currently experiencing an overdraft condition; and

**WHEREAS**, In 2003, Phase I of SWP's East Branch Extension ("EBX") was completed, bringing raw SWP water into SGPWA's service area; however, the capacity of Phase I allows for a maximum of approximately 12,000 acre feet per year ("AFY") of the Agency's existing SWP supply contract Table A amount (17,300 AFY); and

**WHEREAS**, In response to these conditions, the Agency proposes to construct a groundwater recharge facility on a vacant, undeveloped property in the City of Beaumont, California, to increase recharge capabilities with the delivery SWP water, as well as other supplemental water sources via a proposed pipeline and service connection facility and to enable the Agency to replenish the groundwater basin and provide water supply for the ongoing and projected needs of the Agency's service area (the "Project").

**WHEREAS**, pursuant to section 21067 of the Public Resources Code, and section 15367 of the State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.), the Agency is the lead agency for the Project; and

**WHEREAS**, the Agency solicited comments, including details about the scope and content of the environmental information, as well as potential feasible mitigation measures, from responsible agencies, trustee agencies, and the public, in a Notice of Preparation ("NOP") for the EIR for the Project, which was issued on November 13, 2012 and circulated for a period of 30 days pursuant to State CEQA Guidelines sections 15082, subdivision (a) and 15375; and

**WHEREAS**, the Agency's Statement of Project Benefits is attached hereto as Exhibit "B"; and

**WHEREAS**, the Agency's Mitigation Monitoring and Reporting Program setting forth the mitigation measures to which the Agency shall bind itself in connection with the Project is attached hereto as Exhibit "C"; and

**WHEREAS**, the EIR reflects the independent judgment of the Agency and is fully adequate for purposes of making decisions on the merits of the Project; and

**WHEREAS**, the Agency has not received any comments or other information constituting substantial new information requiring recirculation of the EIR pursuant to Public Resources Code section 21092.1 and State CEQA Guidelines section 15088.5; and

**WHEREAS**, on October 21, 2013 the Agency conducted a duly noticed public meeting at which the Project was considered, at which time all persons wishing to testify were heard, and the Project was fully considered; and

**WHEREAS**, all other legal prerequisites to the adoption of this Resolution have occurred.

**THE BOARD OF DIRECTORS OF THE SAN GORGONIO PASS WATER AGENCY DOES HEREBY RESOLVE AS FOLLOWS:**

**SECTION 1 – Consideration of EIR.** The Agency finds that it has reviewed and considered the EIR (including the comment letters, responses to comments, and errata) in evaluating the Project's potential impacts; that the EIR has been completed in full compliance with CEQA, the State CEQA Guidelines, and the Agency's local procedures for implementing CEQA; and that the EIR reflects the independent judgment and analysis of the Agency.

**SECTION 2 - Recirculation.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby finds that no evidence of new significant impacts or any other "significant new information" as defined by State CEQA Guidelines section 15088.5 has been received by the Agency after circulation of the Draft EIR which would require recirculation.

**SECTION 3 – CEQA Findings.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the written CEQA Findings attached hereto as Exhibit "A" to this Resolution.

**SECTION 4 – Project Benefits.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the Statement of Project Benefits attached as Exhibit "B" to this Resolution.

**SECTION 5 – Certification of EIR.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby certifies the EIR and finds that the implementation of the Project will not have any significant and unavoidable environmental effects. All potentially significant environmental impacts have been analyzed

in the EIR and will be mitigated to a level of less than significant. Additionally, the Board finds that a range of reasonable and potentially feasible alternatives to the Project were fully analyzed in the EIR, but are rejected in favor of the Project.


**SECTION 6 - MMRP.** Pursuant to Public Resources Code section 21081.6, the Agency adopts the Mitigation Monitoring and Reporting Plan attached as Exhibit "C" to this Resolution. In the event of any inconsistencies between the mitigation measures as set forth in the EIR or the CEQA Findings in Exhibit A and the Mitigation Monitoring and Reporting Plan, the Mitigation Monitoring and Reporting Plan shall control.

**SECTION 7 – Project Approval.** Based on the entire record before the Agency, all written and oral evidence presented, the CEQA Findings, the Statement of Project Benefits, and Mitigation Monitoring Reporting Plan, and all other evidence, the Agency hereby approves the Beaumont Avenue Recharge Facility and Pipeline Project.

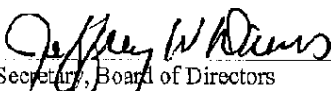
**SECTION 8 – Custodian of Record.** The documents and materials that constitute the record of proceedings on which this Resolution has been based are located at the San Geronio Pass Water Agency, 1210 Beaumont Ave., Beaumont, CA 92223. The custodian for these records is Jeff Davis, General Manager. This information is provided in compliance with Public Resources Code section 21081.6.

**SECTION 9 – Notice of Determination.** Agency staff shall cause a Notice of Determination to be filed and posted with the Clerk of the County of Riverside and the State Clearinghouse within five (5) working days of Project approval.

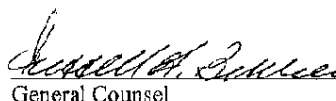
**ADOPTED AND APPROVED** this 21<sup>st</sup> day of October, 2013.

  
\_\_\_\_\_  
President, Board of Directors  
San Geronio Pass Water Agency

ATTEST:

  
\_\_\_\_\_  
Secretary, Board of Directors  
San Geronio Pass Water Agency

APPROVED AS TO FORM:

  
\_\_\_\_\_  
General Counsel  
San Geronio Pass Water Agency

55397.000168289065.4

## **16. TRANSFERS OF WATER FROM ONE STORAGE ACCOUNT TO ANOTHER**

We anticipate that virtually all of the water that will be placed in this storage account will be transferred to storage accounts of Watermaster members via purchase of the water from the Agency.

**17. CRITERIA ESTABLISHED BY WATERMASTER RESOLUTION 2005-01**

Watermaster Resolution 2005-01 establishes principles of groundwater storage in the Beaumont Basin by non-Appropriators. The Agency is a non-Appropriator.

Section 2 of this resolution identifies groundwater storage projects that are given a preference. The following addresses each of the various types of storage and how the Agency's proposed project relates to that type of storage.

- a. Increase the reliability of water supplies. The Agency's proposed project will increase the reliability of water supplies by both providing additional storage capacity in the Basin and by providing additional connected capacity to the State Water Project. More water would be able to be stored in wet years, thus increasing the reliability of available supplies.
- b. Reduce the cost of enhancing the reliability of water supplies. The Agency's proposed facility will be funded up front with general fund revenues, to be reimbursed later (80% of costs) with developer fees. The cost of the project is not borne by water ratepayers, but by new growth and by general fund tax revenues that will be spent on this project as opposed to other expenditures that do not enhance reliability. Thus, the overall cost of enhancing reliability will be reduced for water ratepayers.
- c. Is proposed by, or is conducted for the benefit of, ratepayers. This project is proposed by the Agency and will benefit any purveyor that has a storage account in the Beaumont Basin, along with the ratepayers of those purveyors. While proposed as a project that benefits the entire region, it would have the benefit of benefitting ratepayers as the region would get additional storage and enhanced reliability without the use of ratepayer funds.
- d. Financially benefit ratepayers. The Agency's proposed project does not directly benefit water ratepayers but indirectly benefits them as additional storage would be made available using funds that are not from water rates.
- e. Will not injure existing Overlying and Appropriative Water Rights. The proposed project would not injure any party as it does not draw water out of the basin but enables any local water purveyor to add to storage in the basin. All appropriators and overlayers should benefit from additional storage and from more reliability.
- f. Will not waste water. The proposed project is intended to prevent wasting water by enabling any party in the region, including any retail water purveyor or the Agency, to import all available water in wet years so that no State Water Project water gets left in Northern California to potentially be wasted in a future year.
- g. Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin. The intent of the project is to enable the region to store more water, not necessarily to generate revenues.
- h. Will not impair future opportunities to store water in the Beaumont Basin. There is no reason that the proposed project would impair future opportunities to store water in the Beaumont Basin. If constructed, it would not prohibit any entity from constructing additional storage facilities, if needed. Studies indicate that it will not impact the ability of BCVWD to store water at its facility adjacent to the proposed site.

Section 3 of the resolution addresses types of storage projects, and states that the Watermaster will consider two types of storage programs:

- Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin—revenue generated thereby shall be used to fund capital facilities; and
- Projects which proposed the sale of Temporary Surplus—revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.

Agency staff has discussed this with Watermaster staff and it is not immediately clear to either what this section of the resolution is referring to. Agency staff has tried to determine if any other entity has addressed this issue in any previous application or related to construction of any facility, and has been unable to find a record of this.

Agency staff would be pleased to discuss this issue with the Watermaster so that this may be fully addressed as part of this application.

## **Attachment A**

Year	Units	Minimum Reporting Limit	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average
Aluminum	ug/L	10	102	111	178	41	43	26	57	125	38	32	75
Antimony	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/L	0.5	2.5	2.1	1.9	2.6	3.7	4.0	2.8	1.6	2.1	2.9	2.6
Barium	ug/L	5	34	37	28	36	39	34	30	26	30	36	33
Beryllium	ug/L	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/L	0.1	0.0	0.4	0.9	0.0	0.0	0.0	0	0	0	0	0.1
Chromium	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium-6	ug/L	0.03	0.1	0.1	0.1	0.2	0.6	0.4	0.24	0.06	0.1	0.18	0.2
Copper	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	ug/L	50	75	119	ND	ND	ND	ND	ND	88	ND	ND	ND
Lead	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	ug/L	5	14	17	19	22	18	24	16	16	24	24	19
Mercury	ug/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/L	2	ND	ND	ND	ND	3.0	2.5	ND	ND	ND	ND	ND
Nickel	ug/L	2	ND	2.5	2.0	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	ug/L	20	201	219	163	223	294	248	194	151	186	258	214
Thallium	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/L	1	5.0	4.2	3.2	4.5	7.2	6.7	4.4	3	3.3	4.8	4.6
Zinc	ug/L	20	ND	ND	21.5	ND	ND	ND	ND	ND	ND	ND	ND
Average Annual values													



	GROSS ALPHA	GROSS BETA	RADIUM226	RADIUM228	COMBINED RADIUM	STRONTIUM90	TRITIUM	TOTAL URANIUM	RADON222
Minimum Reporting Limit	3	4	1	1	1	2	1000	1	100
Year Sampled									
2011	ND	4.4	ND	ND	ND	ND	ND	1	ND
2008	3.5	4.2	ND	ND	ND	ND	ND	2.7	ND
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Units - picoCuries per liter (pCi/L)									
Average annual values									

SITE/LOC	SAMPLE DATE	Perchlorate	MBAS	Asbestos	Cyanide	Odor
Minimum Reporting Limit		2	0.05	0.2	0.01	1
Units		ug/L	mg/L	mF/l	mg/L	
SILVERWOOD LAKE	April-05	ND	ND		ND	12
SILVERWOOD LAKE	June-05		ND			
SILVERWOOD LAKE	July-05	ND				
SILVERWOOD LAKE	October-05			ND		
SILVERWOOD LAKE	October-05	ND				
SILVERWOOD LAKE	January-06	ND				
SILVERWOOD LAKE	April-06	ND	ND		ND	12
SILVERWOOD LAKE	July-06	ND				
SILVERWOOD LAKE	October-06	ND		ND		
SILVERWOOD LAKE	January-07	ND				
SILVERWOOD LAKE	April-07	ND	ND		ND	14
SILVERWOOD LAKE	July-07	ND				
SILVERWOOD LAKE	October-07	ND		ND		
SILVERWOOD LAKE	January-08	ND				
SILVERWOOD LAKE	April-08	ND	ND		ND	12
SILVERWOOD LAKE	July-08	ND				
SILVERWOOD LAKE	October-08	ND		ND		
SILVERWOOD LAKE	January-09	ND				
SILVERWOOD LAKE	April-09	ND	0.05	ND	ND	8
SILVERWOOD LAKE	July-09	ND				
SILVERWOOD LAKE	October-09	ND				
SILVERWOOD LAKE	January-10	ND				
SILVERWOOD LAKE	April-10	ND	ND		ND	14
SILVERWOOD LAKE	July-10	ND				
SILVERWOOD LAKE	January-11	ND				
SILVERWOOD LAKE	April-11	ND	ND		ND	12
SILVERWOOD LAKE	July-11	ND				
SILVERWOOD LAKE	January-12	ND				
SILVERWOOD LAKE	April-12	ND	ND		ND	12
SILVERWOOD LAKE	July-12	ND				
SILVERWOOD LAKE	October-12	ND				
SILVERWOOD LAKE	January-13	ND				
SILVERWOOD LAKE	April-13	ND	ND		ND	12
SILVERWOOD LAKE	July-13	ND			ND	
SILVERWOOD LAKE	October-13	ND				
<b>AVERAGE</b>		ND	ND	ND	ND	12

Volatile Organic Compounds	2004-2013
Benzene	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane (Methyl bromide)	ND
sec-Butylbenzene	ND
n-Butylbenzene	ND
tert-Butylbenzene	ND
Carbon Tetrachloride	ND
Chlorobenzene or monochlorobenzene	ND
Chlorodibromomethane*	ND
Chloroethane	ND
Chloroform	ND
Chloromethane or methyl chloride	ND
2-Chlorotoluene or o-Chlorotoluene	ND
4-Chlorotoluene or p-Chlorotoluene	ND
Dibromomethane	ND
1,2-Dichlorobenzene (o)	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene (p)	ND
1,2-Dichloroethane	ND
1,1-Dichloroethane	ND
1,1-Dichloroethene	ND
cis-1,2-Dichloroethene	ND
trans-1,2-Dichloroethene	ND
Dichlorodifluoromethane (FREON 12)	ND
1,2-Dichloropropane	ND
1,3-Dichloropropane	
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
1,3-Dichloropropene (or 1,3-Dichloropropylene)	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
ETBE (Ethyl tertiary butyl ether)	ND
Ethylbenzene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
p-Isopropyltoluene	ND
MEK (or 2-BUTANONE)	ND
Methylene Chloride	ND
MTBE	ND
Naphthalene	ND
Nitrobenzene	ND

n-Propylbenzene	ND
Styrene	ND
TAME (Tertiary amyl methyl ether)	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,2,3-Trichlorobenzene	ND
1,2,4-Trichlorobenzene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene (or trichloroethylene)	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (FREON 113)	ND
1,3,5-Trimethylbenzene	ND
1,2,4-Trimethylbenzene	ND
Vinyl Chloride	ND
Xylenes (single isomer or sum of isomers)	ND
m,p-xylene	ND
o-xylene	ND
<b>Organochlorine Pesticides</b>	
Alachlor	ND
Aldrin	ND
Chlordane	ND
Chloroethanonil	ND
Dieldrin	ND
Endrin	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Hexachlorobenzene	ND
Hexachlorocyclopentadiene	ND
Lindane	ND
Methoxychlor	ND
Polychlorinated Biphenyls	ND
Propachlor	ND
Toxaphene	ND
<b>Fumigants</b>	
Ethylene dibromide (EDB)	ND
Dibromochloropropane (DBCP) (1,2-dibromo-3-chloropropane)	ND
<b>Organochlorine Herbicides</b>	

Bentazon	ND
2,4-D	ND
Dalapon	ND
Dicamba	ND
Dinoseb	ND
Pentachlorophenol	ND
Picloram	ND
Silvex	ND
<b>Carbamate Pesticides</b>	
Diuron	ND
Aldicarb	ND
Aldicarb sulfone	ND
Aldicarb sulfoxide	ND
Baygon (aka Propoxur)	ND
Carbofuran	ND
Carbaryl	ND
3-hydroxycarbofuran	ND
Methomyl	ND
Oxamyl (Vydate)	ND
<b>Miscellaneous</b>	
Diquat	ND
Endothall	ND
Glyphosate	ND
2,3,7,8-TCDD Dioxin	ND
<b>Nitrogen/Phosphorus Pesticides</b>	
Atrazine	ND
Bromacil	ND
Butachlor	ND
Diazinon	ND
Dimethoate	ND
Malathion	ND
Metolachlor	ND
Metribuzin	ND
Molinate	ND
Prometryn	ND
Simazine	ND
Thiobencarb	ND

	GROSS ALPHA	GROSS BETA	RADIUM226	RADIUM228	COMBINED RADIUM	STRONTIUM90	TRITIUM	TOTAL	
								URANIUM	RADON222
Minimum Reporting Limit	3	4	1	1	1	2	1000	1	100
Year Sampled									
2011	ND	4.4	ND	ND	ND	ND	ND	1	ND
2008	3.5	4.2	ND	ND	ND	ND	ND	2.7	ND
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND

Units - picoCuries per liter (pCi/L)  
Average annual values

SITE/LOC	SAMPLE DATE	Perchlorate	MBAS	Asbestos	Cyanide	Odor
Minimum Reporting Limit		2	0.05	0.2	0.01	1
Units		ug/L	mg/L	mF/l	mg/L	
SILVERWOOD LAKE	April-05	ND	ND		ND	12
SILVERWOOD LAKE	June-05		ND			
SILVERWOOD LAKE	July-05	ND				
SILVERWOOD LAKE	October-05			ND		
SILVERWOOD LAKE	October-05	ND				
SILVERWOOD LAKE	January-06	ND				
SILVERWOOD LAKE	April-06	ND	ND		ND	12
SILVERWOOD LAKE	July-06	ND				
SILVERWOOD LAKE	October-06	ND		ND		
SILVERWOOD LAKE	January-07	ND				
SILVERWOOD LAKE	April-07	ND	ND		ND	14
SILVERWOOD LAKE	July-07	ND				
SILVERWOOD LAKE	October-07	ND		ND		
SILVERWOOD LAKE	January-08	ND				
SILVERWOOD LAKE	April-08	ND	ND		ND	12
SILVERWOOD LAKE	July-08	ND				
SILVERWOOD LAKE	October-08	ND		ND		
SILVERWOOD LAKE	January-09	ND				
SILVERWOOD LAKE	April-09	ND	0.05	ND	ND	8
SILVERWOOD LAKE	July-09	ND				
SILVERWOOD LAKE	October-09	ND				
SILVERWOOD LAKE	January-10	ND				
SILVERWOOD LAKE	April-10	ND	ND		ND	14
SILVERWOOD LAKE	July-10	ND				
SILVERWOOD LAKE	January-11	ND				
SILVERWOOD LAKE	April-11	ND	ND		ND	12
SILVERWOOD LAKE	July-11	ND				
SILVERWOOD LAKE	January-12	ND				
SILVERWOOD LAKE	April-12	ND	ND		ND	12
SILVERWOOD LAKE	July-12	ND				
SILVERWOOD LAKE	October-12	ND				
SILVERWOOD LAKE	January-13	ND				
SILVERWOOD LAKE	April-13	ND	ND		ND	12
SILVERWOOD LAKE	July-13	ND			ND	
SILVERWOOD LAKE	October-13	ND				
<b>AVERAGE</b>		ND	ND	ND	ND	12

<b>Volatile Organic Compounds</b>	<b>2004-2013</b>
Benzene	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane (Methyl bromide)	ND
sec-Butylbenzene	ND
n-Butylbenzene	ND
tert-Butylbenzene	ND
Carbon Tetrachloride	ND
Chlorobenzene or monochlorobenzene	ND
Chlorodibromomethane*	ND
Chloroethane	ND
Chloroform	ND
Chloromethane or methyl chloride	ND
2-Chlorotoluene or o-Chlorotoluene	ND
4-Chlorotoluene or p-Chlorotoluene	ND
Dibromomethane	ND
1,2-Dichlorobenzene (o)	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene (p)	ND
1,2-Dichloroethane	ND
1,1-Dichloroethane	ND
1,1-Dichloroethene	ND
cis-1,2-Dichloroethene	ND
trans-1,2-Dichloroethene	ND
Dichlorodifluoromethane (FREON 12)	ND
1,2-Dichloropropane	ND
1,3-Dichloropropane	
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
1,3-Dichloropropene (or 1,3-Dichloropropylene)	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
ETBE (Ethyl tertiary butyl ether)	ND
Ethylbenzene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
p-Isopropyltoluene	ND
MEK (or 2-BUTANONE)	ND
Methylene Chloride	ND
MTBE	ND
Naphthalene	ND
Nitrobenzene	ND



n-Propylbenzene	ND
Styrene	ND
TAME (Tertiary amyl methyl ether)	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,2,3-Trichlorobenzene	ND
1,2,4-Trichlorobenzene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene (or trichloroethylene)	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (FREON 113)	ND
1,3,5-Trimethylbenzene	ND
1,2,4-Trimethylbenzene	ND
Vinyl Chloride	ND
Xylenes (single isomer or sum of isomers)	ND
m,p-xylene	ND
o-xylene	ND
<b>Organochlorine Pesticides</b>	
Alachlor	ND
Aldrin	ND
Chlordane	ND
Chlorothalonil	ND
Dieldrin	ND
Endrin	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Hexachlorobenzene	ND
Hexachlorocyclopentadiene	ND
Lindane	ND
Methoxychlor	ND
Polychlorinated Biphenyls	ND
Propachlor	ND
Toxaphene	ND
<b>Fumigants</b>	
Ethylene dibromide (EDB)	ND
Dibromochloropropane (DBCP) (1,2-dibromo-3-chloropropane)	ND
<b>Organochlorine Herbicides</b>	

Bentazon	ND
2,4-D	ND
Dalapon	ND
Dicamba	ND
Dinoseb	ND
Pentachlorophenol	ND
Picloram	ND
Silvex	ND
<b>Carbamate Pesticides</b>	
Diuron	ND
Aldicarb	ND
Aldicarb sulfone	ND
Aldicarb sulfoxide	ND
Baygon (aka Propoxur)	ND
Carbofuran	ND
Carbaryl	ND
3-hydroxycarbofuran	ND
Methomyl	ND
Oxamyl (Vydate)	ND
<b>Miscellaneous</b>	
Diquat	ND
Endothall	ND
Glyphosate	ND
2,3,7,8-TCDD Dioxin	ND
<b>Nitrogen/Phosphorus Pesticides</b>	
Atrazine	ND
Bromacil	ND
Butachlor	ND
Diazinon	ND
Dimethoate	ND
Malathion	ND
Metolachlor	ND
Metribuzin	ND
Molinate	ND
Prometryn	ND
Simazine	ND
Thiobencarb	ND

Year	Units	Minimum Reporting Limit	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average
Aluminum	ug/L	10	102	111	178	41	43	26	57	125	38	37	75
Antimony	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/L	0.5	2.5	2.1	1.9	2.6	3.7	4.0	2.8	1.6	2.1	2.9	2.6
Barium	ug/L	5	34	37	28	36	39	34	30	26	30	36	33
Beryllium	ug/L	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/L	0.1	0.0	0.4	0.9	0.0	0.0	0.0	0	0	0	0	0.1
Chromium	ug/L	1	ND	ND	ND	ND	0.6	0.4	ND	ND	ND	ND	ND
Chromium-6	ug/L	0.03	0.1	0.1	0.1	0.2	0.6	0.4	0.24	0.06	0.1	0.18	0.2
Copper	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	ug/L	50	75	119	ND	ND	ND	ND	ND	88	ND	ND	ND
Lead	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	ug/L	5	14	17	19	22	18	24	16	16	24	24	19
Mercury	ug/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/L	2	ND	ND	ND	ND	3.0	2.5	ND	ND	ND	ND	ND
Nickel	ug/L	2	ND	2.5	2.0	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	ug/L	20	201	219	163	223	294	248	194	151	185	258	214
Thallium	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/L	1	5.0	4.2	3.2	4.5	7.2	6.7	4.4	3	3.3	4.8	4.6
Zinc	ug/L	20	ND	ND	21.5	ND	ND	ND	ND	ND	ND	ND	ND
Average Annual values													

LOCATION	REPORT DATE	BICARBONATE mg/L	BORON mg/L	BROMIDE mg/L	CALCIUM mg/L	CARBONATE mg/L	CHLORIDE mg/L	COLOR mg/L	FLUORIDE mg/L	FREE CO2 mg/L
SILVERWOOD LAKE	Dec-13	95		0.33	22	0	100		0.1	2.1
SILVERWOOD LAKE	Nov-13	89		0.35	19	0	107		0.1	1.4
SILVERWOOD LAKE	Oct-13	93		0.3	19	0	92	10	0.1	0.7
SILVERWOOD LAKE	Sep-13	85		0.21	20	6	68		0.1	0.2
SILVERWOOD LAKE	Aug-13	84		0.2	23	10	66		0.1	0.2
SILVERWOOD LAKE	Jul-13	100		0.23	25	4	73	7	0.1	0.5
SILVERWOOD LAKE	Jun-13	105		0.23	27	2	71		0.1	0.6
SILVERWOOD LAKE	May-13	111		0.22	28	0	68		0.1	0.8
SILVERWOOD LAKE	Apr-13	110		0.23	28	0	75	12	0.1	0.9
SILVERWOOD LAKE	Mar-13	102		0.22	28	0	77		0.1	1.2
SILVERWOOD LAKE	Feb-13	93		0.27	23	0	84		0	1.1
SILVERWOOD LAKE	Jan-13	90		0.3	18	0	91	7	0	1.8
SILVERWOOD LAKE	Dec-12	90		0.3	17	0	94		0	1.5
SILVERWOOD LAKE	Nov-12	92		0.37	17	0	110		0	1.5
SILVERWOOD LAKE	Oct-12	81		0.25	15	0	76	7	0	1.5
SILVERWOOD LAKE	Sep-12	79		0.16	16	0	56		0.1	1.4
SILVERWOOD LAKE	Aug-12	88		0.16	18	0	55		0	1.1
SILVERWOOD LAKE	Jul-12	95		0.2	22	0	64	7	0	0.9
SILVERWOOD LAKE	Jun-12	96		0.2	22	0	66		0	0.8
SILVERWOOD LAKE	May-12	102		0.22	26	1	72		0.1	0.7
SILVERWOOD LAKE	Apr-12	94		0.25	21	0	80	8	0	0.7
SILVERWOOD LAKE	Mar-12	95		0.26	21	0	86		0	0.9
SILVERWOOD LAKE	Feb-12	90		0.19	19	0	62		0	0.7
SILVERWOOD LAKE	Jan-12	78		0.11	17	0	37	7	0	2.1
SILVERWOOD LAKE	Dec-11	73		0.08	15	0	25		0	1.1
SILVERWOOD LAKE	Nov-11	79		0.07	14	0	23		0	1.5
SILVERWOOD LAKE	Oct-11	73		0.08	14	0	26	7	0	1.4
SILVERWOOD LAKE	Sep-11	70		0.1	14	0	33		0	1.3
SILVERWOOD LAKE	Aug-11	57		0.07	13	0	26		0	1.1

SILVERWOOD LAKE	Jul-11	57		0.08	13	0	28	7	0	1.5
SILVERWOOD LAKE	Jun-11	59		0.07	13	0	24		0	1.1
SILVERWOOD LAKE	May-11	63		0.06	14	0	27		0	1.2
SILVERWOOD LAKE	Apr-11	67		0.1	16	0	32	12	0	1.2
SILVERWOOD LAKE	Mar-11	67		0.08	16	0	31		0	0.6
SILVERWOOD LAKE	Feb-11	66		0.1	15	0	38		0	2.5
SILVERWOOD LAKE	Jan-11	76		0.2	16	0	65	15	0	1.6
SILVERWOOD LAKE	Dec-10	87		0.22	18	0	78		0	1.1
SILVERWOOD LAKE	Nov-10	89		0.28	18	0	91	8	0	1.7
SILVERWOOD LAKE	Oct-10	83	0.1	0.26	17	0	83		0	1
SILVERWOOD LAKE	Sep-10	82		0.15	17	0	51		0	1
SILVERWOOD LAKE	Aug-10	90		0.17	20	0	59		0	0.9
SILVERWOOD LAKE	Jul-10	90		0.19	21	0	62	11	0.1	1.1
SILVERWOOD LAKE	Jun-10	88		0.14	22	0	51		0.1	1.6
SILVERWOOD LAKE	May-10	88		0.15	23	0	49		0.1	2.3
SILVERWOOD LAKE	Apr-10	85		0.18	22	0	51	6	0.1	1.6
SILVERWOOD LAKE	Mar-10	83		0.19	21	0	54		0.1	1.4
SILVERWOOD LAKE	Feb-10	82		0.22	21	0	64		0.1	1
SILVERWOOD LAKE	Jan-10	82		0.24	20	0	69	7	0.1	1.4
SILVERWOOD LAKE	Dec-09	83		0.26	21	0	74		0.1	1.9
SILVERWOOD LAKE	Nov-09	93		0.32	21	0	92		0.1	1.2
SILVERWOOD LAKE	Oct-09	83	0.11	0.28	17	0	87	7	0.1	1.2
SILVERWOOD LAKE	Sep-09	81		0.23	17	0	75		0.1	1.2
SILVERWOOD LAKE	Aug-09	94		0.21	22	1	66		0.1	0.6
SILVERWOOD LAKE	Jul-09	105		0.28	26	0	91	8	0.1	1
SILVERWOOD LAKE	Jun-09	101		0.27	27	0	74		0.2	1.3
SILVERWOOD LAKE	May-09	99		0.27	27	0	75		0.1	0.9
SILVERWOOD LAKE	Apr-09	98	0.16	0.26	26	1	72	6	0.2	0.3
SILVERWOOD LAKE	Mar-09	99		0.26	26	0	72		0.1	1.5
SILVERWOOD LAKE	Feb-09	100		0.28	26	0	78		0.2	3.5
SILVERWOOD LAKE	Jan-09	100		0.26	26	0	77	5	0.1	2.2
SILVERWOOD LAKE	Dec-08	100		0.28	25	0	78		0.1	1.7
SILVERWOOD LAKE	Nov-08	99		0.26	24	0	78		0.1	1.5
SILVERWOOD LAKE	Oct-08	99	0.15	0.24	25	0	75	10	0.1	1.1

SILVERWOOD LAKE	Sep-08	96		0.22	24	2	72		0.1	0.7
SILVERWOOD LAKE	Aug-08	102		0.24	24	0	76		0.1	1.3
SILVERWOOD LAKE	Jul-08	110	0.17	0.26	25	0	79	7	0.1	0.8
SILVERWOOD LAKE	Jun-08	105		0.24	26	0	76		0.1	1
SILVERWOOD LAKE	May-08	105		0.22	26	0	71	13	0.1	0.8
SILVERWOOD LAKE	Apr-08	100	0.19	0.22	27	0	68		0.1	1
SILVERWOOD LAKE	Mar-08	95		0.25	25	0	73		0.1	1.3
SILVERWOOD LAKE	Feb-08	85		0.22	22	0	66		0.1	1.7
SILVERWOOD LAKE	Jan-08	89	0.12	0.27	22	0	78	10	0.13	1.2
SILVERWOOD LAKE	Dec-07	93		0.29	24	0	82		0.13	1.5
SILVERWOOD LAKE	Nov-07	93		0.31	22	0	87		0.12	1.6
SILVERWOOD LAKE	Oct-07	88	0.11	0.33	20	0	92	9	0.1	1.4
SILVERWOOD LAKE	Sep-07	83		0.22	18	0	65		0	0.7
SILVERWOOD LAKE	Aug-07	89		0.16	20	0	50		0.1	1.3
SILVERWOOD LAKE	Jul-07	100	0.15	0.21	23	0	66	5	0.1	1.2
SILVERWOOD LAKE	Jun-07	100		0.2	22	0	63		0	0.8
SILVERWOOD LAKE	May-07	96		0.18	22	0	59		0.1	1.1
SILVERWOOD LAKE	Apr-07	99	0.19	0.21	23	0	70	13	0.1	1.8
SILVERWOOD LAKE	Mar-07	98		0.27	22	0	86		0.11	2
SILVERWOOD LAKE	Feb-07	94		0.31	21	0	95		0	1.4
SILVERWOOD LAKE	Jan-07	93	0.14	0.22	20	0	67	13	0	1.1
SILVERWOOD LAKE	Dec-06	79		0.12	15	0	38		0	1.5
SILVERWOOD LAKE	Nov-06	83		0.1	15	0	31		0	6.9
SILVERWOOD LAKE	Oct-06	81	0.09	0.12	15	0	38	7	0	4
SILVERWOOD LAKE	Sep-06	78		0.14	15	0	42		0	
SILVERWOOD LAKE	Aug-06	72		0.13	15	0	41		0	1.1
SILVERWOOD LAKE	Jul-06	62	0.1	0.1	13	0	32	12	0	2.1
SILVERWOOD LAKE	Jun-06	60		0.07	13	0	25		0.12	1.9
SILVERWOOD LAKE	May-06	61		0.08	14	0	29		0	1.6
SILVERWOOD LAKE	Apr-06	66	0.15	0.1	16	0	37	15	0	1.2
SILVERWOOD LAKE	Mar-06	67		0.13	17	0	44		0	1.4
SILVERWOOD LAKE	Feb-06	68		0.18	16	0	60		0	1.2
SILVERWOOD LAKE	Jan-06	90	0.14	0.28	19	0	88	15	0	2.2
SILVERWOOD LAKE	Dec-05	87		0.2	17	0	63		0	1.4

SILVERWOOD LAKE	Nov-05	88	0.17	16	0	55	12	0	1.6
SILVERWOOD LAKE	Oct-05	88	0.12	18	0	54	12	0	1.1
SILVERWOOD LAKE	Sep-05	85	0.14	17	0	44		0	1.4
SILVERWOOD LAKE	Aug-05	76	0.11	17	0	37		0	1.1
SILVERWOOD LAKE	Jul-05	73	0.14	17	0	43	13	0	1.4
SILVERWOOD LAKE	Jun-05	90	0.17	21	0	61		0	1.7
SILVERWOOD LAKE	May-05	86	0.12	21	0	49		0	2.2
SILVERWOOD LAKE	Apr-05	102	0.22	25	0	56	29	0.1	1.9
SILVERWOOD LAKE	Mar-05	98	0.15	23	0	55		0.1	1.6
SILVERWOOD LAKE	Feb-05	92	0.23	21	0	71		0.11	1.6
SILVERWOOD LAKE	Jan-05	96	0.15	21	0	69	28	0.12	1.5
SILVERWOOD LAKE	Dec-04	95	0.25	22	0	76		0.12	1.5
SILVERWOOD LAKE	Nov-04	93	0.25	20	0	75	12	0.12	1.9
SILVERWOOD LAKE	Oct-04	92	0.21	19	0	64		0.1	1.2
SILVERWOOD LAKE	Sep-04	87	0.17	17	0	55		0.1	1.4
SILVERWOOD LAKE	Aug-04	93	0.19	19	0	59	12	0	1.3
SILVERWOOD LAKE	Jul-04	100	0.21	21	0	67		0	1.2
SILVERWOOD LAKE	Jun-04	99	0.21	22	0	67		0	1
SILVERWOOD LAKE	May-04	93	0.14	21	0	50	13	0	1.2
SILVERWOOD LAKE	Apr-04	93	0.18	22	0	46		0	1.7
SILVERWOOD LAKE	Mar-04	96	0.18	22	0	59		0	1.7
SILVERWOOD LAKE	Feb-04	96	0.29	22	0	90	12	0.1	1.7
SILVERWOOD LAKE	Jan-04	98	0.31	21	0	95		0	1.6
<b>Average</b>		<b>88</b>	<b>0.14</b>	<b>20</b>	<b>0.23</b>	<b>64</b>	<b>11</b>	<b>0.05</b>	<b>1.39</b>

MAGNESIUM mg/L	NITRATE mg/L	PHENOL_ALKA LINITY_AS_CA CO3 mg/L	POTASSIUM mg/L	SILICA mg/L	SODIUM mg/L	SPECIFIC CONDUCTANCE µmho/cm	SULFATE mg/L	TFR_180C (Total Filterable Residue) mg/L	TOC (Total Organic Carbon) mg/L	TEMPERATURE °C
11	1.6	0	2.8	8.6	69	579	39	306	2.53	14
13	0.6	0	3.1	8.4	70	576	33	301	2.63	16
12	0.2	0	3	9.4	63	515	29	283	2.9	20
11	0.4	5	2.5	12.7	52	463	34	253	3.04	24
11	0.2	8	2.6	13.6	53	474	42	268	3.55	23
12	1.3	3	2.7	11.6	58	521	50	293	3.36	23
12	2.2	2	2.6	9.8	57	524	52	291	3.58	20
12	3.5	0	2.6	10.1	56	522	55	297	3.64	17
12	4.4	0	2.8	12	58	562	56	308	3.6	13
12	4.7	0	2.9	12.5	59	542	53	287	3.7	11
12	3.7	0	2.9	13.6	60	506	38	287	3.04	10
13	2.6	0	3	11.2	61	516	29	270	2.46	9
13	1.5	0	3	10.5	61	515	25	280	2.46	14
14	0.7	0	3.3	11.4	67	569	27	302	2.44	18
11	0.4	0	2.5	10	49	434	19	230	2.62	23
10	0.7	0	2.2	11.1	39	342	19	203	2.7	24
10	1.3	0	2.4	11.8	40	368	30	218	3.02	24
11	2.1	0	2.5	13.2	48	456	39	256	3.14	22
11	2.2	0	2.6	11.5	51	482	43	264	3.34	20
11	3.1	1	2.6	11.1	56	519	48	291	3.68	17
12	2.2	0	2.9	9.8	56	498	37	269	3.08	12
13	2.4	0	3.1	9.8	60	529	38	281	3.1	10
11	2.3	0	2.5	10	45	404	33	231	2.98	9
9	2.4	0	1.9	11	31	316	26	180	2.68	9
7	1.9	0	1.5	10.1	23	240	18	138	2.45	11
8	1.3	0	1.5	12.6	21	238	14	140	2.66	19
7	1.1	0	1.6	12	23	241	15	138	2.72	23
8	1.3	0	1.8	11.5	27	266	19	157	2.82	24
6	1.7	0	1.7	11.8	22	228	18	138	2.98	25



6	2	0	1.7	10.5	23	243	22	139	2.76	24
6	0.9	0	1.8	9.4	22	215	17	128	3.37	18
7	1.5	0	2.1	9.3	25	254	26	150	4.14	16
8	2.6	0	1.9	9.9	28	287	31	170	3.98	13
8	2.3		2.1	10.8	27	275	26		4.2	10
8	3.2		2.5	12.7	29	290	25		4.22	10
10	2.9		2.6	12.3	45	403	23		2.92	9
12	2.3		2.8	11.2	55	470	25		2.46	12
13	1.6		3	11.9	60	510	24		2.53	18
12	0.6		2.6	10.2	55	472	22		2.51	22
10	0.8		2.3	10.5	38	358	23		3.04	23
12	2.1		2.4	13.2	45	415	35		3.26	24
11	2.5		2.6	12.1	49	449	40		3.72	22
9	2.7		2.3	11.4	45	420	45		3.47	18
9	3.6		2.5	11.9	46	420	46		3.75	16
8	4		2.2	11.4	44	392	35		2.44	11
8	3.6		2.2	12.3	45	404	32		2.6	10
8	3.3		2.3	11.3	51	424	33		2.46	9
9	3.3		2.4	11	55	465	33		1.95	10
10	2.9		2.5	11.7	56	478	35		2.22	12
12	2		2.9	10.8	65	531	35		2.38	17
12	0.9		2.8	9.7	59	496	25		2.53	19
11	0.6		2.7	10.8	53	438	25		2.78	23
12	1.8		2.7	13.8	50	464	37		3.58	24
13	2.7		3.1	12	69	583	55		3.45	22
9	2.4		2.4	6.9	62	540	52		2.76	17
9	2.4		2.5	6.1	64	533	48		2.64	14
8	2.6		2.3	6.2	61	505	45		2.35	12
9	2.5		2.3	8.1	60	498	43		2.48	13
9	3.5		2.3	10.6	63	527	46		2.04	9
8	3.2		2.4	10.6	64	526	46		2.13	9
9	3		2.4	10.6	63	530	48		2.09	15
10	2.5		2.5	12.1	63	508	47		2.34	17
10	2		2.6	15	57	511	43		2.62	21

11	1.6		2.8	15.1	55	497	40	3.01	24
12	2.9		3	14.9	55	519	42	2.96	24
12	3.1		3	14	58	519	41	2.96	23
11	3.4		2.8	11.4	57	525	45	3.18	18
11	4.2		2.8	11.6	56	527	49	3.53	17
10	5.6		2.8	12.6	57	507	48	3.12	14
9	4.9		2.5	12.4	58	501	43	2.24	10
8	4.6		2.4	13.7	52	454	36	2.63	8
8	4		2.5	12.4	60	499	39	1.88	9
9	3.7		2.7	12.5	61	516	37	1.56	14
10	2.8		2.5	11.6	63	533	33	2.07	17
11	1.6		3	11.2	61	515	28	2.29	20
10	1.3		2.5	13.3	45	395	23	2.72	25
9	2.2		2.4	12.6	39	358	27	2.66	24
11	2.1		2.7	14.2	50	460	35	2.75	23
12	2		2.6	12	50	446	35	2.98	21
12	3.4		2.3	12.4	46	447	39	3.48	17
12	4.4		2.9	14.9	53	497	45	4.28	15
14	4.4		3.2	14.5	58	539	44	3.96	11
15	4		3.4	14.9	62	560	39	3.51	8
12	3.5		2.7	13	48	450	34	2.76	10
9	2.7		2.1	12.6	30	306	22	2.63	13
9	2.1		1.8	12.6	27	275	18	2.46	18
9	1.4		2	12.4	31	308	21	2.74	21
9	1.6		2.2	12.4	33	322	23	2.86	25
9	1.5		2.1	11.9	32	313	24	3.12	24
7	1.5		1.9	11.2	26	260	20	3.3	25
6	1.3		3.3	10.7	22	231	17	3.26	22
7	1.9		2.2	7.7	27	267	30	3.61	16
8	2.8		1.8	8.9	31	309	34	7.95	13
9	3.5		2.2	10.2	36	349	37	5.49	10
10	3.6		2.7	9.4	41	386	30	3.76	11
13	3.4		3.3	12.1	59	517	33	5.77	11
11	2.8		4	11.4	45	417	25	3.82	13

10.5	2		2.4	11.4	39	375	22	2.77	17
11	1.4		2.5	11.5	39	375	24	4.73	21
10	1.9		2.3	13.6	33	338	26	3.31	23
9	2.2		2.1	13.1	30	319	26	3.5	27
9	2.8		2.4	13.7	34	341	30	3.88	25
12	3.2		2.8	11.8	47	449	43	4.24	21
11.5	4		2.5	11	42	424	49	4.86	17
13.5	5.8		3.1	13.8	46	476	54	5.94	14
12.5	6.3		3.3	15.5	44	447	43	6.18	12
12	5.6		3.2	13.8	50	470	33	4.42	9
12	5.4		3	13.2	50	473	34	4.25	10
11.5	3.6		3	11.8	58	489	34	2.92	12
11	2.8		2.8	11	54	463	29	3.04	16
10.5	1.7		2.5	11.8	48	423	26	2.9	22
10	1.5		2.3	13	40	374	22	3.12	24
11.5	2.1		2.6	14.4	46	412	29	3.3	24
13	2.8		2.8	14.5	50	477	38	3.75	24
13.5	2.7		3.1	13.5	50	469	39	3.64	21
12	3.2		2.4	12.3	40	403	39	3.95	19
12	4.6		2.6	14	38	401	41	5.11	17
13	4.4		2.6	14.5	45	449	38	5.09	10
14.5	4.6		3.5	14.1	62	553	42	4.07	9
14	2.6		3.4	10.7	64	554	37	3.31	9
10	2.60	0.58	2.6	11.7	48	435	34	3.24	17

TOTAL_ALKALINITY_ AS_CACO3 mg/L	TOTAL DISS _SOLIDS mg/L	TOTAL_HARDNESS_ AS_CACO3 mg/L	TURBIDITY NTU	PH
78	302	104	0.56	7.88
73	299	100	0.75	8.02
76	274	98	1.1	8.37
80	249	99	1.1	8.88
85	264	106	2.1	8.99
88	288	116	0.88	8.57
90	288	117	0.62	8.46
91	291	118	0.73	8.36
90	303	120	0.65	8.3
84	300	120	0.72	8.17
76	284	108	0.63	8.15
74	274	102	1	7.93
74	270	98	0.78	7.99
75	296	102	0.82	8.01
66	223	84	1.1	7.95
65	194	78	1.1	7.98
72	213	89	1.1	8.13
78	249	101	1.1	8.25
79	257	105	0.92	8.28
86	282	111	1.3	8.38
77	268	104	1.1	8.35
78	281	110	0.88	8.25
74	230	97	0.97	8.31
64	174	81	0.82	7.79
60	138	67	1.3	8.04
65	135	67	1.6	7.95
60	136	66	1.4	7.94
57	151	69	1.7	7.95
47	129	57	3.4	7.95

47	135	57	4.8	7.8
48	124	53	2.4	7.95
52	143	63	3.6	7.96
55	163	69	2	7.98
55	157	68	1.9	8.25
54	166	67	5.8	7.64
62	215	83	2.8	7.89
71	248	94	0.84	8.13
73	267	98	1.6	7.93
68	244	92	1.1	8.13
67	193	82	0.86	8.14
74	234	94	1.4	8.22
74	245	98	1.9	8.13
72	232	93	2.6	7.95
72	235	93	1.6	7.81
70	220	86	1.2	7.95
68	220	84	1.9	8
67	235	87	2.4	8.12
67	244	89	0.81	7.99
68	255	90	0.76	7.87
76	287	100	0.74	8.12
68	255	91	1	8.05
66	235	91	0.83	8.05
79	254	103	1.6	8.46
86	324	117	1	8.24
83	287	106	1.6	8.12
81	284	104	1.4	8.24
82	273	102	1.6	8.71
81	272	100	1.02	8.05
82	289	102	0.44	7.68
82	287	100	0.79	7.88
82	289	106	0.73	7.99
81	289	104	0.71	8.05
81	279	106	1.2	8.19

83	272	108	2	8.41
84	281	110	1	8.13
90	290	112	1.2	8.36
86	285	112	1.1	8.24
86	284	116	0.83	8.34
82	281	110	0.79	8.21
78	275	100	1.4	8.09
70	248	90	2.9	7.93
73	271	92	3.6	8.09
76	278	98	1	8.02
76	278	100	1	7.98
72	272	97	0.95	8.02
68	220	86	1	8.29
73	207	88	1.5	8.05
82	254	106	2.6	8.14
82	249	103	1.1	8.34
79	244	107	1.3	8.16
81	275	112	1	7.95
80	295	114	1.7	7.9
77	301	112	1.2	8.06
76	247	100	0.7	8.13
65	171	78	1.1	7.95
68	158	75	0.97	7.3
66	170	76	0.95	7.53
64	177	82	1.9	
59	173	74	1.8	8.02
51	144	64	3.8	7.7
49	128	56	4.8	7.71
50	149	67	1.4	7.8
54	173	75	1.2	7.97
55	193	80	2.2	7.91
56	207	82	2.8	7.98
74	276	101	26	7.84
71	223	88	0.97	8.02

72	202	83	1.1	7.97
72	205	90	1.2	8.12
70	191	84	1.6	8.01
62	174	80	2.6	8.04
60	189	80	3.3	7.94
74	247	102	4.7	7.95
71	233	100	2.5	7.81
84	268	118	4.6	7.95
80	252	109	5.2	8
75	255	102	6.2	7.98
79	256	102	12	8.04
78	268	102	1.5	8.01
76	252	95	5.3	7.92
75	229	91	0.86	8.09
71	204	84	1.2	8.01
76	230	95	2.3	8.07
82	259	106	3.3	8.14
81	260	111	1.3	8.22
76	226	102	2.1	8.12
76	227	104	7.1	7.97
79	247	108	6.5	7.98
79	301	115	2.1	7.97
80	297	110	4.2	8.02
73	238	94	2.10	8.07

## **Attachment B**



1. BCVWD Well #22. Located on Oak Valley Parkway just east of 960.  
Past 5 year water quality available  
Marginal water level data.  
1 mile southeast of parcel.
2. BCVP&RD Irrigation well. Located at 390 W. Oak Valley Parkway  
No water quality available.  
Very good water level data  
.6-.7 mile southwest of parcel.
3. Oak Valley Golf Course abandoned wellsite.  
No water quality available.  
Marginal water level data.  
1 mile southwest of parcel.
4. BCVWD Well #24. Located on Brookside Ave. just east of Union St.  
Past 5 year water quality available  
Marginal water level data.  
1.3-1.4 mile west of parcel.
5. Michael Joesph well. Located at 11020 Union St.  
No water quality available  
Marginal water level data  
1.3-1.4 mile west of parcel.
6. Michelle Delph well. Located at 11133 Union St.  
No water quality available.  
Very good water level data.  
1.4-1.5 mile west of parcel.



## **Attachment C**

### Historical Water Level Data

[illegible]

## **Attachment D**

Historical Water Quality Data

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1												Nitrates				
2																
3																
4	BCVWD Well #22	East of 960 Oak Valley Parkway	1 mile SE of parcel	2009	2010	2011	2012	2013	2014	2009	2010	2011	2012	2013	2014	2015
5					200			210		2.9	3.1		3.4	5.1	3.4	3.7
6	BCV&RD Irrigation Well	390 W. Oak Valley Parkway	0.6 miles SW of parcel													
7																
8	Oak Valley Golf Course Abandoned Well		1 mile SW of parcel													
9																
10	BCVWD Well #24	Brookside Avenue east of Union St.	1.3 miles W of parcel							4.5	5.3		6.4	7	6.4	6.4
11																
12	Michael Joseph Well	11020 Union Street	1.3 miles W of parcel													
13																
14	Michelle Delph Well	11133 Union Street	1.4 miles W of parcel						200							8.2

## **Attachment E**

**13. WATER QUANTITY (Attachment E)**

The volume of water recharged in any year could vary from zero (in some years) to as much as 13,000 acre-feet (well in the future). The 13,000 acre-feet comes from the capacity of the connection (20 cfs). This could only happen in the future when our capacity in EBX has increased and when we have procured additional sources of water.

In the near term (the next 10-12 years), the most that we would expect to recharge would be 7,500 acre-feet per year. This would only occur in a year when we get 100% allocation from the state and there is additional Article 21 water available in that year. Or, alternatively, it could occur in a year when we get a high SWP allocation (80% or higher), plus Article 21 water, plus additional water that we would obtain in the future by purchase, transfer, or exchange.

It is likely that most of this water will go directly into storage accounts of Watermaster members who would purchase the water from the Agency. Any water available to the region that is not purchased by retail water districts would be purchased by the Agency and placed into the Agency's storage account, from where it would be transferred to a Watermaster member upon purchase.



## **Attachment F**

**14. IMPACTS TO OTHERS (Attachment F)**

The impacts to others would only be positive. Storing more water in the ground than could otherwise be placed there will raise groundwater elevations, helping to preserve the basin and reducing pumping costs to appropriators and overlies alike. It is anticipated that most or all water in the account will be transferred to an account of a Watermaster member within a short time.

Basin losses due to use of this proposed facility are anticipated to be minimal or nonexistent.

During the EIR we analyzed potential damage to any homes that might be constructed on adjacent land in the future and found that this would not occur.

## **Attachment G**

**15. ENVIRONMENTAL REVIEW (Attachment G)**

See attached EIR on CD, certified by the Agency Board of Directors on October 21, 2013. Also attached is Agency Resolution 2013-13, certifying the EIR.

**RESOLUTION NO. 2013-13****A RESOLUTION OF THE SAN GORGONIO PASS WATER AGENCY CERTIFYING THE DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT; ADOPTING ENVIRONMENTAL FINDINGS PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT; ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM; ADOPTING A STATEMENT OF PROJECT BENEFITS; AND APPROVING THE BEAUMONT AVENUE RECHARGE FACILITY AND PIPELINE PROJECT**

**WHEREAS**, the San Gorgonio Pass Water Agency (the "Agency" or "SGPWA") is a state water contractor, that was formed with the purpose of importing water from the State Water Project ("SWP") into the San Gorgonio Pass area in 1961, the Agency's service area encompasses approximately 228 square miles and includes the Cities of Beaumont, Calimesa, and Banning, as well as the unincorporated areas of Cherry Valley, Cabazon, Poppet Flat, Banning Bench, and San Timoteo and Live Oak Canyons; and

**WHEREAS**, the most heavily developed portion of the Agency's service area, the Beaumont Basin, is currently experiencing an overdraft condition; and

**WHEREAS**, in 2003, Phase I of SWP's East Branch Extension ("EBX") was completed, bringing raw SWP water into SGPWA's service area; however, the capacity of Phase I allows for a maximum of approximately 12,000 acre feet per year ("AFY") of the Agency's existing SWP supply contract Table A amount (17,300 AFY); and

**WHEREAS**, in response to these conditions, the Agency proposes to construct a groundwater recharge facility on a vacant, undeveloped property in the City of Beaumont, California, to increase recharge capabilities with the delivery SWP water, as well as other supplemental water sources via a proposed pipeline and service connection facility and to enable the Agency to replenish the groundwater basin and provide water supply for the ongoing and projected needs of the Agency's service area (the "Project").

**WHEREAS**, pursuant to section 21067 of the Public Resources Code, and section 15367 of the State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.), the Agency is the lead agency for the Project; and

**WHEREAS**, the Agency solicited comments, including details about the scope and content of the environmental information, as well as potential feasible mitigation measures, from responsible agencies, trustee agencies, and the public, in a Notice of Preparation ("NOP") for the EIR for the Project, which was issued on November 13, 2012 and circulated for a period of 30 days pursuant to State CEQA Guidelines sections 15082, subdivision (a) and 15375; and

**WHEREAS**, the Agency's Statement of Project Benefits is attached hereto as Exhibit "B"; and

**WHEREAS**, the Agency's Mitigation Monitoring and Reporting Program setting forth the mitigation measures to which the Agency shall bind itself in connection with the Project is attached hereto as Exhibit "C"; and

**WHEREAS**, the EIR reflects the independent judgment of the Agency and is fully adequate for purposes of making decisions on the merits of the Project; and

**WHEREAS**, the Agency has not received any comments or other information constituting substantial new information requiring recirculation of the EIR pursuant to Public Resources Code section 21092.1 and State CEQA Guidelines section 15088.5; and

**WHEREAS**, on October 21, 2013 the Agency conducted a duly noticed public meeting at which the Project was considered, at which time all persons wishing to testify were heard, and the Project was fully considered; and

**WHEREAS**, all other legal prerequisites to the adoption of this Resolution have occurred.

**THE BOARD OF DIRECTORS OF THE SAN GORGONIO PASS WATER AGENCY DOES HEREBY RESOLVE AS FOLLOWS:**

**SECTION 1 – Consideration of EIR.** The Agency finds that it has reviewed and considered the EIR (including the comment letters, responses to comments, and errata) in evaluating the Project's potential impacts; that the EIR has been completed in full compliance with CEQA, the State CEQA Guidelines, and the Agency's local procedures for implementing CEQA; and that the EIR reflects the independent judgment and analysis of the Agency.

**SECTION 2 - Recirculation.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby finds that no evidence of new significant impacts or any other "significant new information" as defined by State CEQA Guidelines section 15088.5 has been received by the Agency after circulation of the Draft EIR which would require recirculation.

**SECTION 3 – CEQA Findings.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the written CEQA Findings attached hereto as Exhibit "A" to this Resolution.

**SECTION 4 – Project Benefits.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby adopts the Statement of Project Benefits attached as Exhibit "B" to this Resolution.

**SECTION 5 – Certification of EIR.** Based on the entire record before the Agency, including all written and oral evidence presented, the Agency hereby certifies the EIR and finds that the implementation of the Project will not have any significant and unavoidable environmental effects. All potentially significant environmental impacts have been analyzed

in the EIR and will be mitigated to a level of less than significant. Additionally, the Board finds that a range of reasonable and potentially feasible alternatives to the Project were fully analyzed in the EIR, but are rejected in favor of the Project.

**SECTION 6 - MMRP.** Pursuant to Public Resources Code section 21081.6, the Agency adopts the Mitigation Monitoring and Reporting Plan attached as Exhibit "C" to this Resolution. In the event of any inconsistencies between the mitigation measures as set forth in the EIR or the CEQA Findings in Exhibit A and the Mitigation Monitoring and Reporting Plan, the Mitigation Monitoring and Reporting Plan shall control.

**SECTION 7 – Project Approval.** Based on the entire record before the Agency, all written and oral evidence presented, the CEQA Findings, the Statement of Project Benefits, and Mitigation Monitoring Reporting Plan, and all other evidence, the Agency hereby approves the Beaumont Avenue Recharge Facility and Pipeline Project.

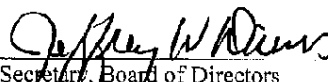
**SECTION 8 – Custodian of Record.** The documents and materials that constitute the record of proceedings on which this Resolution has been based are located at the San Geronio Pass Water Agency, 1210 Beaumont Ave., Beaumont, CA 92223. The custodian for these records is Jeff Davis, General Manager. This information is provided in compliance with Public Resources Code section 21081.6.

**SECTION 9 – Notice of Determination.** Agency staff shall cause a Notice of Determination to be filed and posted with the Clerk of the County of Riverside and the State Clearinghouse within five (5) working days of Project approval.

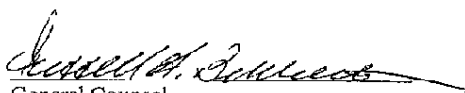
**ADOPTED AND APPROVED** this 21<sup>st</sup> day of October, 2013.

  
\_\_\_\_\_  
President, Board of Directors  
San Geronio Pass Water Agency

ATTEST:

  
\_\_\_\_\_  
Secretary, Board of Directors  
San Geronio Pass Water Agency

APPROVED AS TO FORM:

  
\_\_\_\_\_  
General Counsel  
San Geronio Pass Water Agency

## **Attachment H**



3/29/05

**RESOLUTION NO. 2005-01  
A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER  
ESTABLISHING PRINCIPLES OF GROUNDWATER STORAGE IN THE  
BEAUMONT BASIN BY NON-APPROPRIATORS**

WHEREAS, there exists in the Beaumont Basin a substantial amount of available groundwater storage capacity; and

WHEREAS, such capacity can be reasonably used for storing supplemental water; and

WHEREAS, the Watermaster desires to establish by this Resolution certain fundamental principles governing the future use of such capacity by non-Appropriators.

**NOW, THEREFORE, the Beaumont Basin Watermaster hereby resolves as follows:**

**Section 1. Definitions**

As used herein, these terms shall have the following definitions:

- a. **Groundwater Storage Agreement:** a standard form of written agreement between the Watermaster and any Person requesting the storage of Supplemental Water.
- b. **Groundwater Storage Capacity:** the space available in the Beaumont Basin that is not utilized for storage or regulation of Safe Yield and is reasonably available for Stored Water and Conjunctive Use.
- c. **Person:** any non-appropriator individual, partnership, association, corporation, governmental entity or agency, or other organization.
- d. **Storage Program:** Supplemental Water stored in the Beaumont Basin for later use, or the sale of Temporary Surplus.
- e. **Stored Water:** Supplemental Water stored in the Beaumont Basin pursuant to a Groundwater Storage Agreement with the Watermaster.
- f. **Supplemental Water:** water imported into the Beaumont Basin from outside the Beaumont Basin including, without limitation, water diverted from creeks upstream and tributary to the Beaumont Basin and water which is recycled and useable within the Beaumont Basin.
- g. **Temporary Surplus:** the amount of groundwater that can be pumped annually in excess of the Safe Yield of the Beaumont Basin necessary to create enough additional storage capacity to prevent the waste of water.

3/29/05

**Section 2. Preferred Groundwater Storage Projects**

Preference shall be given to groundwater storage projects that:

- a. Increase the reliability of water supplies;
- b. Reduce the cost of enhancing the reliability of water supplies;
- c. Is proposed by, or is conducted for the benefit of, ratepayers;
- d. Financially benefit ratepayers;
- e. Will not injure existing Overlying and Appropriative Water Rights;
- f. Will not waste water;
- g. Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin; and
- h. Will not impair future opportunities to store water in the Beaumont Basin.

**Section 3. Types of Groundwater Storage Programs**

The Watermaster shall consider two types of Storage Programs:

- a. Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin: revenue generated thereby shall be used to fund capital facilities; and
- b. Projects which propose the sale of Temporary Surplus: revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.

**Section 4. Groundwater Storage Agreement**

In order to prevent injury to existing water rights, to prevent the waste of water, and to protect the use of Supplemental Water in storage and the Safe Yield of the Beaumont Basin, no Person may make reasonable beneficial use of the Groundwater Storage Capacity except pursuant to a written Groundwater Storage Agreement with the Watermaster. Without limitation, such Agreements shall include:

- a. The payment of administrative and storage fees to the Watermaster;
- b. The payment of fees for the use of Temporary Surplus;
- c. Accounting for Supplemental Water losses while in storage;
- d. Term limit;

- e. Reasonable limitations on the rates of storage and recovery of Stored Water;
- f. Protection of water quality in the Beaumont Basin.

MOVED, PASSED AND ADOPTED this 12th day of April, 2005, upon the following vote:

City of Banning: Yes  
City of Beaumont: Absent  
Beaumont-Cherry Valley Water District: Yes  
South Mesa Mutual Water Company: Yes  
Yucaipa Valley Water District: Yes

Dated: April 12, 2005

BEAUMONT BASIN WATERMASTER

By /s/ George Jorritsma  
Chair

**17. CRITERIA ESTABLISHED BY WATERMASTER RESOLUTION 2005-01**

Watermaster Resolution 2005-01 establishes principles of groundwater storage in the Beaumont Basin by non-Appropriators. The Agency is a non-Appropriator.

Section 2 of this resolution identifies groundwater storage projects that are given a preference. The following addresses each of the various types of storage and how the Agency's proposed project relates to that type of storage.

- a. Increase the reliability of water supplies. The Agency's proposed project will increase the reliability of water supplies by both providing additional storage capacity in the Basin and by providing additional connected capacity to the State Water Project. More water would be able to be stored in wet years, thus increasing the reliability of available supplies.
- b. Reduce the cost of enhancing the reliability of water supplies. The Agency's proposed facility will be funded up front with general fund revenues, to be reimbursed later (80% of costs) with developer fees. The cost of the project is not borne by water ratepayers, but by new growth and by general fund tax revenues that will be spent on this project as opposed to other expenditures that do not enhance reliability. Thus, the overall cost of enhancing reliability will be reduced for water ratepayers.
- c. Is proposed by, or is conducted for the benefit of, ratepayers. This project is proposed by the Agency and will benefit any purveyor that has a storage account in the Beaumont Basin, along with the ratepayers of those purveyors. While proposed as a project that benefits the entire region, it would have the benefit of benefitting ratepayers as the region would get additional storage and enhanced reliability without the use of ratepayer funds.
- d. Financially benefit ratepayers. The Agency's proposed project does not directly benefit water ratepayers but indirectly benefits them as additional storage would be made available using funds that are not from water rates.
- e. Will not injure existing Overlying and Appropriative Water Rights. The proposed project would not injure any party as it does not draw water out of the basin but enables any local water purveyor to add to storage in the basin. All appropriators and overlayers should benefit from additional storage and from more reliability.
- f. Will not waste water. The proposed project is intended to prevent wasting water by enabling any party in the region, including any retail water purveyor or the Agency, to import all available water in wet years so that no State Water Project water gets left in Northern California to potentially be wasted in a future year.
- g. Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin. The intent of the project is to enable the region to store more water, not necessarily to generate revenues.
- h. Will not impair future opportunities to store water in the Beaumont Basin. There is no reason that the proposed project would impair future opportunities to store water in the Beaumont Basin. If constructed, it would not prohibit any entity from constructing additional storage facilities, if needed. Studies indicate that it will not impact the ability of BCVWD to store water at its facility adjacent to the proposed site.

Section 3 of the resolution addresses types of storage projects, and states that the Watermaster will consider two types of storage programs:

- Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin—revenue generated thereby shall be used to fund capital facilities; and
- Projects which proposed the sale of Temporary Surplus—revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.

Agency staff has discussed this with Watermaster staff and it is not immediately clear to either what this section of the resolution is referring to. Agency staff has tried to determine if any other entity has addressed this issue in any previous application or related to construction of any facility, and has been unable to find a record of this.

Agency staff would be pleased to discuss this issue with the Watermaster so that this may be fully addressed as part of this application.

# Attachment C

## BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 16-21

**Date:** December 7, 2016

**From:** Hannibal Blandon, ALDA Inc.  
Joseph Zoba, Treasurer

**Subject:** Conditions Related to the Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency (SGPWA)

**Recommendation:** Pending

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At the April Board meeting, copies of SGPWA's application for a groundwater storage agreement in the Beaumont Basin were distributed to members of the Watermaster Committee for their review.

At the Watermaster meeting on June 1, 2016, the Watermaster Committee discussed the importance of incorporating contingencies into the approval of the storage account to protect the rights and responsibilities of the Watermaster members to fulfill the terms of the Stipulated Judgment.

On October 5, 2016, the Watermaster Committee reviewed the following proposed conditions that would be included in the storage agreement with the San Gorgonio Pass Water Agency to represent the common goals of the parties:

1. The storage account authorized to the San Gorgonio Pass Water Agency shall not negatively impact, impede, reduce or obstruct the purchase and delivery of supplemental water from the San Gorgonio Pass Water Agency to any water retailer of the Watermaster Committee at any location or time.
2. When the quantity of supplemental water available on an annual basis exceeds all demands and/or requests for supplemental water by the Watermaster Committee members, the San Gorgonio Pass Water Agency may recharge the excess supplemental water in the Beaumont Avenue Recharge Facility or any other location approved by the Beaumont Basin Watermaster.
3. Supplemental water stored by the San Gorgonio Pass Water Agency pursuant to the conditions herein and the approved Storage Agreement will be made available at any time to the members of the Watermaster without restrictions
4. Any member or members of the Watermaster shall maintain the first right of refusal to purchase the supplemental water placed in storage by the San Gorgonio Pass Water Agency. All Watermaster members shall be notified in writing a minimum

of 60 calendar days prior to any sale, transfer, distribution, or exchange of any supplemental water in the storage account of the San Gorgonio Pass Water Agency. The Watermaster maintains an opportunity to individually or collectively purchase the water in the storage account of the San Gorgonio Pass Water Agency under the same terms and conditions offered to a member of the Watermaster, non-member of the Watermaster, or any other entity.

5. Any future condition, issue, or operational constraint that conflicts with the ability of any Watermaster member to administer and fulfill their obligation(s) pursuant to the Stipulated Judgment shall be immediate cause for rescinding the storage agreement to the San Gorgonio Pass Water Agency.

The language was shared with Jeff Davis, General Manager of the San Gorgonio Pass Water Agency. If there are no further issues or suggestions related to this language, then the final Groundwater Storage Agreement will be prepared and provided to the Watermaster Committee for consideration at our next meeting.



# Attachment D

## APPLICATION BY THE SAN GORGONIO PASS WATER AGENCY (SGPWA) FOR A GROUNDWATER STORAGE AGREEMENT IN THE BEAUMONT BASIN

### Draft Conditions for Groundwater Storage Agreement with SGPWA

(Original Draft Conditions Prepared by Beaumont Basin Watermaster per Memorandum No. 16-18 dated October 5, 2016)

#### (Below are Draft Conditions Prepared by SGPWA)

The proposed language below in relation to SGPWA's Application for a Groundwater Storage Agreement (Application) is intended to ensure consistency with the San Gorgonio Pass Water Agency Law (SGPWA Law) and the legal framework within which the Beaumont Basin Watermaster approves Groundwater Storage Agreements in the Beaumont Basin. First, it should be noted that SGPWA's Application and everything contained therein is consistent with and expressly authorized by the SGPWA Law. Indeed, the Application is intended to assist SGPWA in carrying out many of the key objectives of the SGPWA Law and related ordinances and policies that have been adopted by SGPWA for the benefit of the region and the Watermaster Committee members. Second, the Application and everything contained therein is fully consistent with the express provisions of the Beaumont Basin Judgment, the Watermaster Rules and Regulations, Watermaster Resolution No. 2005-01, and various Groundwater Storage Agreements that Watermaster previously has approved for other parties.

For these and other reasons, SGPWA believes that its Application is entirely consistent with existing and applicable law and should not be subject to the proposed conditions of approval. Nevertheless, in the spirit of cooperation, SGPWA is willing to consider reasonable conditions on its Groundwater Storage Agreement provided that the conditions are not inconsistent with SGPWA's rights and authorities under the SGPWA Law, and provided that the conditions are expressly authorized by the Judgment, the Watermaster Rules and Regulations, and Watermaster Resolution No. 2005-01. SGPWA looks forward to Watermaster's continued cooperation in this matter.

1. The storage account authorized to the SGPWA shall not relieve SGPWA from any obligations it has under laws, ordinances, and policies applicable to SGPWA regarding the purchase and delivery of supplemental water for the Watermaster Committee members.
2. Subject to any obligations of SGPWA under laws, ordinances, and policies applicable to SGPWA regarding the purchase and delivery of supplemental water for the Watermaster Committee members, SGPWA may recharge supplemental water in the Beaumont Avenue Recharge Facility or any other location approved by the Beaumont Basin Watermaster.
3. Supplemental water stored by SGPWA pursuant to the conditions herein and the approved Storage Agreement will be made available to the Watermaster Committee members in accordance with laws, ordinances, and policies applicable to SGPWA.

4. Members of the Watermaster Committee shall maintain first rights of refusal to purchase supplemental water placed in storage by the SGPWA at times when SGPWA determines in its discretion under laws, ordinances, and policies applicable to SGPWA that it has stored supplemental water available for sale, transfer, or exchange. At such times, SGPWA shall notify all Watermaster Committee members via electronic mail a minimum of 60 calendar days prior to any sale, transfer, or exchange of any supplemental water in the storage account of SGPWA to any person or entity other than a Watermaster Committee member. The Watermaster shall determine what amount(s), if any, of the stored supplemental water offered by SGPWA will be purchased individually or collectively by the Watermaster Committee members, which first right(s) of purchase must be exercised in writing received by SGPWA within 70 calendar days after notice was sent by SGPWA.

**Joseph Zoba**

---

**From:** Paeter Garcia <Paeter.Garcia@bbklaw.com>  
**Sent:** Tuesday, January 24, 2017 1:59 PM  
**To:** 'Jeff Davis'  
**Cc:** Joseph Zoba  
**Subject:** RE: Storage Account Conditions

Jeff and Joe,

Please use my conference line below for Thursday's call. I also will an Outlook invitation.

Dial-in: 888-761-8885  
Passcode: 213-787-2543

Thanks again,  
Paeter

---

**From:** Jeff Davis [mailto:JDavis@sgpwa.com]  
**Sent:** Tuesday, January 24, 2017 7:41 AM  
**To:** Paeter Garcia  
**Cc:** Joseph Zoba  
**Subject:** RE: Storage Account Conditions

Paeter,  
That sounds great. Can you please take care of the conference line?

---

**From:** Paeter Garcia [mailto:Paeter.Garcia@bbklaw.com]  
**Sent:** Monday, January 23, 2017 8:05 PM  
**To:** Jeff Davis  
**Cc:** Joseph Zoba  
**Subject:** Re: Storage Account Conditions

Thanks Joe and Jeff. I can make Thursday at 8:00. I also can circulate a conference line if needed. Paeter



**Paeter E. Garcia**  
Partner  
[paeter.garcia@bbklaw.com](mailto:paeter.garcia@bbklaw.com)  
T: (213) 787-2543 C: (213) 949-2893  
[www.BBKlaw.com](http://www.BBKlaw.com) ☐ ☐

On Jan 23, 2017, at 2:55 PM, "Jeff Davis" <[JDavis@sgpwa.com](mailto:JDavis@sgpwa.com)> wrote:

Sounds good. Do you have the ability to set up a conference call or do you want me to do it?

---

**From:** Joseph Zoba [mailto:jzoba@ywwd.dst.ca.us]  
**Sent:** Monday, January 23, 2017 2:55 PM  
**To:** Jeff Davis

**Cc:** Paeter Garcia ([Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com))

**Subject:** RE: Storage Account Conditions

I will hold 8:00 am and wait for confirmation from Paeter.

**Joseph Zoba, General Manager**  
Yucaipa Valley Water District  
Phone: (909) 797-5119  
Email: [jzoba@yvwd.dst.ca.us](mailto:jzoba@yvwd.dst.ca.us)

---

**From:** Jeff Davis [<mailto:JDavis@sgpwa.com>]

**Sent:** Monday, January 23, 2017 2:43 PM

**To:** Joseph Zoba <[jzoba@yvwd.dst.ca.us](mailto:jzoba@yvwd.dst.ca.us)>

**Cc:** Paeter Garcia ([Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com)) <[Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com)>

**Subject:** RE: Storage Account Conditions

Joe and Paeter,

I have a Banning Oversight Meeting at 9:00 Thursday. I could probably do 8:00 but would have to sign off around 8:30. Paeter?

---

**From:** Joseph Zoba [<mailto:jzoba@yvwd.dst.ca.us>]

**Sent:** Monday, January 23, 2017 2:11 PM

**To:** Jeff Davis

**Cc:** Paeter Garcia ([Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com))

**Subject:** RE: Storage Account Conditions

Jeff – I would be available to discuss the storage account issue on Thursday morning. Would you be available for a conference call at either 8:00 or 9:00?

Joe

**Joseph Zoba, General Manager**  
Yucaipa Valley Water District  
Phone: (909) 797-5119  
Email: [jzoba@yvwd.dst.ca.us](mailto:jzoba@yvwd.dst.ca.us)

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**From:** Jeff Davis [<mailto:JDavis@sgpwa.com>]

**Sent:** Monday, January 23, 2017 11:39 AM

**To:** Joseph Zoba <[jzoba@yvwd.dst.ca.us](mailto:jzoba@yvwd.dst.ca.us)>

**Cc:** Paeter Garcia ([Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com)) <[Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com)>

**Subject:** RE: Storage Account Conditions

Joe,

Here is the document that Paeter and I came up with. I think it is self-explanatory. I see these conditions as pretty similar to what you drafted up, but just from the Agency's perspective vis a vis the Agency Act, etc. The one significant difference is the deletion of the final condition, which gave the Watermaster the right to rescind the storage agreement at any time based on any changed condition.

We feel these are "reasonable" based on the Watermaster Rules and Regulations. Maybe the next step is for the three of us to have a conference call about it, at your convenience, hopefully before the Watermaster meeting on February 1 (that gives us a couple of weeks).

---

**From:** Joseph Zoba [<mailto:jzoba@yvwd.dst.ca.us>]  
**Sent:** Friday, January 20, 2017 4:56 PM  
**To:** Jeff Davis  
**Cc:** Paeter Garcia ([Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com))  
**Subject:** RE: Storage Account Conditions

Jeff – Since we did not get a chance to connect. Please send me your comments on the proposed language.

Joe

Joseph Zoba, General Manager  
Yucaipa Valley Water District  
Phone: (909) 797-5119  
Email: [jzoba@yvwd.dst.ca.us](mailto:jzoba@yvwd.dst.ca.us)

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**From:** Jeff Davis [<mailto:JDavis@sgpwa.com>]  
**Sent:** Wednesday, January 18, 2017 8:14 AM  
**To:** Joseph Zoba <[jzoba@yvwd.dst.ca.us](mailto:jzoba@yvwd.dst.ca.us)>  
**Cc:** Paeter Garcia ([Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com)) <[Paeter.Garcia@bbklaw.com](mailto:Paeter.Garcia@bbklaw.com)>  
**Subject:** Storage Account Conditions

Joe,  
Paeter and I have had an opportunity to review your draft conditions for the Agency storage account, under direction from the Board, and we have made some revisions that we think reflect the Watermaster's rules and regulations regarding a "reasonable" storage account with the Agency. Do you have some time later this week to discuss this in a conference call? I think that would be a lot easier than trying to get all three of us together in a room. I'd like to get this settled before your February 1 Watermaster meeting if possible.

Jeff Davis  
San Geronimo Pass Water Agency  
General Manager  
951/845-2577

This email and any files or attachments transmitted with it may contain privileged or otherwise confidential information. If you are not the intended recipient, or believe that you may have received this communication in error, please advise the sender via reply email and immediately delete the email you received.

# Attachment E

## BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 17-03

**Date:** February 1, 2017

**From:** Hannibal Blandon, ALDA Inc.  
Joseph Zoba, Treasurer

**Subject:** Review and Discussion of Conditions Related to the Groundwater Storage Agreement in the Beaumont Basin for the San Gorgonio Pass Water Agency (SGPWA)

**Recommendation:** That the Watermaster schedule a special meeting on Wednesday, March 1, 2017 at 10:00 a.m. to consider adopting Resolution No. 17-01.

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At the April 2016 Watermaster meeting, copies of SGPWA's application for a groundwater storage agreement in the Beaumont Basin were distributed to members of the Watermaster Committee for their review.

At the Watermaster meeting on June 1, 2016, the Watermaster Committee discussed the importance of incorporating contingencies into the approval of the storage account to protect the rights and responsibilities of the Watermaster members to fulfill the terms of the Stipulated Judgment.

On October 5, 2016, the Watermaster Committee reviewed the following proposed conditions that would be included in the storage agreement with the San Gorgonio Pass Water Agency to represent the common goals of the parties:

1. The storage account authorized to the San Gorgonio Pass Water Agency shall not negatively impact, impede, reduce or obstruct the purchase and delivery of supplemental water from the San Gorgonio Pass Water Agency to any water retailer of the Watermaster Committee at any location or time.
2. When the quantity of supplemental water available on an annual basis exceeds all demands and/or requests for supplemental water by the Watermaster Committee members, the San Gorgonio Pass Water Agency may recharge the excess supplemental water in the Beaumont Avenue Recharge Facility or any other location approved by the Beaumont Basin Watermaster.
3. Supplemental water stored by the San Gorgonio Pass Water Agency pursuant to the conditions herein and the approved Storage Agreement will be made available at any time to the members of the Watermaster without restrictions



4. Any member or members of the Watermaster shall maintain the first right of refusal to purchase the supplemental water placed in storage by the San Gorgonio Pass Water Agency. All Watermaster members shall be notified in writing a minimum of 60 calendar days prior to any sale, transfer, distribution, or exchange of any supplemental water in the storage account of the San Gorgonio Pass Water Agency. The Watermaster maintains an opportunity to individually or collectively purchase the water in the storage account of the San Gorgonio Pass Water Agency under the same terms and conditions offered to a member of the Watermaster, non-member of the Watermaster, or any other entity.
5. Any future condition, issue, or operational constraint that conflicts with the ability of any Watermaster member to administer and fulfill their obligation(s) pursuant to the Stipulated Judgment shall be immediate cause for rescinding the storage agreement to the San Gorgonio Pass Water Agency.

The language was shared with Jeff Davis, General Manager of the San Gorgonio Pass Water Agency and presented again for review and discussion at the December 7, 2016 Watermaster meeting.

In preparation for this meeting, a draft resolution has been prepared with a proposed modification to condition number five above.

The San Gorgonio Pass Water Agency has requested additional time to review the conditions outlined above and modified in the attached resolution.

If there are no further issues or suggestions related to this language, then the final Groundwater Storage Resolution should be scheduled for consideration at a special meeting on the first Wednesday in March.

**RESOLUTION NO. 17-01****A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER TO CONFIRM AND ADOPT SAN GORGONIO PASS WATER AGENCY'S ("SGPWA") APPLICATION FOR GROUNDWATER STORAGE AGREEMENT, SUBJECT TO STATED CONDITIONS**

**WHEREAS**, the Stipulated Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197) empowers the Beaumont Basin Watermaster to adopt appropriate rules and regulations for the conduct of Watermaster affairs; and

**WHEREAS**, pursuant to its authority, the Beaumont Basin Watermaster established principles of groundwater storage in the Beaumont Basin via Resolution No. 2005-01, the foundation for SGPWA's Application for Groundwater Storage Agreement;

**WHEREAS**, SGPWA is a state water contractor formed in 1961 for the purpose of importing water from the State Water Project into the San Gorgonio Pass area. SGPWA's service area includes the Beaumont Basin;

**WHEREAS**, SGPWA submitted to the Beaumont Basin Watermaster a Groundwater Storage Application requesting, in pertinent part, to store up to 10,000 acre-feet of water in the Beaumont Basin through artificial recharge of water from the State Water Project, via a proposed recharge facilities to be located in the southwest corner of Brookside Avenue and Beaumont Avenue; and

**WHEREAS**, the Beaumont Basin Watermaster issued copies of SGPWA's Groundwater Storage Application to members of its Watermaster Committee for review in advance of the October 5, 2016, Beaumont Basin Watermaster meeting; and,

**WHEREAS**, on October 5, 2016 and December 7, 2016, the Beaumont Basin Watermaster met to discuss SGPWA's Groundwater Storage Application agreeing to support such under the following draft conditions that:

1. SGPWA's Groundwater Storage Account shall not negatively impact, impede, reduce or obstruct the purchase and delivery of ~~supplemental~~ imported water from SGPWA to any water retailer of the Beaumont Basin Watermaster Committee, at any location or time;
2. when the quantity of ~~supplemental~~ imported water available on an annual basis exceeds the demands and/or requests for supplemental water by the Watermaster Committee members, SGPWA may recharge the excess ~~supplemental~~ imported water in the Beaumont Avenue Recharge Facility, or any other location approved by the Beaumont Basin Watermaster;
3. ~~supplemental~~ imported water stored by the SGPWA pursuant to the conditions herein and the approved SGPWA Groundwater Storage Application, will be made available, at any time, to the members of the Beaumont Basin Watermaster without restrictions;
4. any member of members of the Beaumont Basin Watermaster shall maintain the right of first refusal to purchase the ~~supplemental~~ imported water placed in storage by the SGPWA on a pro rata purchase sharing basis. All Beaumont Basin Watermaster members shall be notified in writing a minimum of sixty-(60) calendar days prior to any sale, transfer, distribution, or exchange of any ~~supplemental~~ imported water in the storage account of the SGPWA. The Beaumont Basin

Watermaster maintains an opportunity to individually or collectively purchase the water in the storage account of the SGPWA under the same terms and conditions offered to a member of the Beaumont Basin Watermaster, non-member of the Beaumont Basin Watermaster, or any other entity; and,

5. any future condition, issue, or operational constraint that conflicts with the ability of any Beaumont Basin Watermaster member to administer and fulfill its obligation(s) pursuant to the Stipulated Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197), shall be ~~immediate~~ cause for ~~suspending the rescinding~~ SGPWA's Groundwater Storage account by a majority action of the Beaumont Basin Watermaster Committee.

**WHEREAS**, the Beaumont Basin Watermaster met on February 1, 2017 to take this matter up, finding that the foregoing is true and accurate, and

**NOW, THEREFORE, BE IT RESOLVED BY THE BEAUMONT BASIN WATERMASTER** that it does hereby accept SGPWA's Groundwater Storage Application and does hereby grant SGPWA a water storage account pursuant to SGPWA's Groundwater Storage Application, subject to the conditions set forth in this Resolution, and subject to the Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197), its rules and regulations for the Beaumont Basin – to include groundwater storage in the Beaumont Basin by Non-Appropriators – a classification applying to SGPWA.

**PASSED AND ADOPTED** this 1st day of February, 2017.

BEAUMONT BASIN WATERMASTER

By: \_\_\_\_\_  
Art Vella, Chairman of the  
Beaumont Basin Watermaster

# Attachment F

Beaumont Basin Watermaster - SGPWA Storage...

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Wed 05/31/2017 3:40 PM

**CR** Cheryle Rasmussen <CRasmussen@sgpwa.com>  
Beaumont Basin Watermaster - SGPWA Storage Account

To: Art Vela; Kyle Warsinski; Joseph Zoba; Eric Fraser ; George Jorritsma; Art Welch; George Moyer; Don Peterson ; Debbie Franklin; Daniela Andrade; Mark Orozco; Mike Lara ; Lloyd White ; Nancy Carroll ; Julio Martinez ; Daniel Slawson; David Hoffman; John Covington ; Claudeen Diaz ; Andy Ramirez ; Bruce Granland ; Jay Bogh; Chris Mann; Lonni Granlund; T.J. Shalhoub; board@southmesawater.com; Kmccullough@alvaradosmith.com; Thierry Montoya


Cc: David Fenn; Ron Duncan; Leonard Stephenson ; Blair Ball ; D. Castaldo; Mike Thompson ; Stephen Lehtonen; Jeff Davis; Jeffry; Paeter E. Garcia

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 SGPWA Storage Letter...  
927 KB

Please see the attached letter to Beaumont Basin Watermaster Chair Art Vela from the San Gorgonio Pass Water Agency.

**Cheryle Rasmussen**  
Executive Assistant  
San Gorgonio Pass Water Agency  
A California State Water Contractor  
1210 Beaumont Avenue  
Beaumont, CA 92223  
(951) 845-2577

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Riverside  
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Walnut Creek  
(925) 977-3300

Washington, DC  
(202) 785-0600

**Paeter E. Garcia**  
(213) 787-2543  
[paeter.garcia@bbklaw.com](mailto:paeter.garcia@bbklaw.com)  
File No. 55397-00009

May 31, 2017

**VIA FIRST CLASS AND ELECTRONIC MAIL ([AVELA@CI.BANNING.CA.US](mailto:AVELA@CI.BANNING.CA.US))**

Art Vela, P.E.  
Chair of the Beaumont Basin Watermaster  
99 East Ramsey Street  
Banning, California 92220

Re: San Gorgonio Pass Water Agency Application for Groundwater Storage Agreement in the Beaumont Basin

Dear Chairman Vela and Honorable Members of the Beaumont Basin Watermaster:

Our firm serves as General Counsel to the San Gorgonio Pass Water Agency (SGPWA) and this letter is submitted on behalf of SGPWA in relation to its Application for Groundwater Storage Agreement (Application) submitted to the Beaumont Basin Watermaster (Watermaster) on March 14, 2016. As further set forth herein, SGPWA respectfully requests the Watermaster to approve the Application at Watermaster's next meeting on June 7, 2017 so that SGPWA can store water in the Beaumont Basin (Basin) for the benefit of the Basin and the water agencies and water users within SGPWA.

As Watermaster is aware, the SGPWA Application requests a storage account in the Basin in the amount of 10,000 acre-feet. The Application clearly provides that the intended purpose of the account is to take advantage of additional water when it is available from the State Water Project (SWP) and other sources and make that water available to local retail water agencies within SGPWA's service area. Importantly, the Application is entirely consistent with SGPWA's express authorities and responsibilities as determined by the California Legislature pursuant to the San Gorgonio Pass Water Agency Law (SGPWA Law). Equally important, the Application is entirely consistent with and satisfies all express provisions of the Beaumont Basin Judgment that apply to the storage of supplemental water and the reasonable and beneficial use of available subsurface storage capacity in the Basin. The Application is also fully consistent with and satisfies all provisions of the Watermaster Rules and Regulations pertaining to the recharge and storage of supplemental water and Watermaster's approval of groundwater storage agreements. Furthermore, the Application is entirely consistent with and satisfies all provisions of Watermaster Resolution 2005-01 regarding the use of groundwater storage capacity in the Basin by non-Appropriators. Indeed, SGPWA's Application proposes numerous benefits at the

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Beaumont Basin Watermaster  
May 31, 2017  
Page 2

individual, regional and Basin-wide level, and thus Watermaster should approve the Application in the same way it has already approved other storage accounts.

Watermaster has already recognized the benefits of SGPWA's storage account. In a Memorandum dated June 1, 2016, Watermaster Engineer Hannibal Blandon (ALDA Inc. in association with Thomas Harder & Company) favorably opined on SGPWA's Application.<sup>1</sup> In particular, and without limitation, the Engineer's Opinion concluded that the Application addresses each of the four sections outlined in Watermaster Resolution 2005-01; that the Application will increase total storage agreements by only 3.57 percent; that having water available in SGPWA's storage account will increase the reliability of supply in the Basin as Appropriators could meet their replenishment obligations by buying water from SGPWA; that the storage of imported water in the central portion of the Basin could have a positive impact on local water levels; and that the quality of SWP supplies stored by SGPWA is equal to or better than the local groundwater quality in the Basin.

Subsequently, via Memorandum dated October 5, 2016, Mr. Blandon and Mr. Joseph Zoba indicated as follows: "At the Watermaster meeting on June 1, 2016, the Watermaster Committee discussed the importance of incorporating contingencies into the approval of the [SGPWA] storage account to protect the rights and responsibilities of the Watermaster members to fulfill the terms of the Stipulated Judgment."<sup>2</sup> The October 5th Memorandum set forth five draft conditions to be imposed on SGPWA's storage account. The draft conditions were transmitted to SGPWA and SGPWA's Application was put on hold.

SGPWA reviewed the draft conditions with the assistance of our office and in relation to the express terms of the Basin Judgment, Watermaster Rules and Regulations, Watermaster Resolution 2005-01, and the SGPWA Law. Based on that review, SGPWA cannot agree that any of the draft conditions are reasonably necessary "to protect the rights and responsibilities of the Watermaster members to fulfill the terms of the Stipulated Judgment." First, Watermaster has not imposed such contingencies or conditions on any other storage applications that it already has approved, and thus it appears that SGPWA is being treated disparately without justification as it relates to the actual reasonable and beneficial use of available groundwater storage space in the Basin as authorized by the Judgment and well-established California water law and policy. Second, SGPWA cannot agree to contingencies or conditions that are inconsistent with authorities and discretion of the SGPWA Board of Directors in carrying out the SGPWA Law or ordinances within the SGPWA service area. Third, none of the draft conditions

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<sup>1</sup> A true and correct copy of the Memorandum dated June 1, 2016 is included herewith as Attachment 1.

<sup>2</sup> A true and correct copy of the Memorandum dated October 5, 2016 is included herewith as Attachment 2.



Beaumont Basin Watermaster  
May 31, 2017  
Page 3

are specifically tied to any express requirements or prohibitions in the Judgment, Rules and Regulations, or Resolution 2005-01 that apply to the actual storage of supplemental water in the Basin and reasonable and beneficial use of groundwater storage capacity. Instead, the draft conditions appear to be rooted in concerns held by some Watermaster Committee members that they will not have access to the supplemental water being stored by SGPWA. Yet SGPWA has done nothing to engender such concerns and its Application specifically provides that the purpose of its storage account is to make more supplemental water available to the Watermaster members and increase regional water supply reliability within SGPWA's service area.

The SGPWA Law and various SGPWA ordinances and policies establish the legal framework within which SGPWA makes supplemental water available to the Watermaster members. SGPWA remains committed to those obligations and to increasing the availability and reliability of water supplies within its service area. In fact, and as stated above, SGPWA's storage Application and everything contained therein is consistent with and expressly authorized by the SGPWA Law and is intended to help carry out many of the key objectives of the SGPWA Law and related ordinances and policies *for the benefit* of Watermaster members, the Basin, and the SGPWA service area. Furthermore, the Application complies and is entirely consistent with the express provisions of the Judgment, the Rules and Regulations, and Watermaster Resolution No. 2005-01 with respect to the reasonable and beneficial use of groundwater storage space.

For these and other reasons, SGPWA believes that its Application fully comports with all aspects of existing and applicable law and should not be subject to the type of conditions set forth in the October 5th Memorandum. Nevertheless, and in the spirit of cooperation, SGPWA is willing to consider reasonable conditions on its Groundwater Storage Agreement provided that the conditions are not inconsistent with the rights, authorities, and discretion of SGPWA under the SGPWA Law and related ordinances, and provided that the conditions are expressly authorized by the Judgment, the Watermaster Rules and Regulations, and Watermaster Resolution No. 2005-01. Accordingly, SGPWA would be agreeable to the following conditions:<sup>3</sup>

1. The storage account authorized to SGPWA shall not relieve SGPWA from any obligations it has under laws, ordinances, and policies applicable to SGPWA regarding the purchase and delivery of supplemental water within the SGPWA service area.

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<sup>3</sup> These proposed conditions from SGPWA in substantially the same form were previously transmitted to and discussed with Mr. Zoba as a representative of the Watermaster.





Beaumont Basin Watermaster  
May 31, 2017  
Page 4

2. Subject to any obligations of SGPWA under laws, ordinances, and policies applicable to SGPWA regarding the purchase and delivery of supplemental water for the Watermaster Committee members, SGPWA may recharge supplemental water in the Beaumont Basin.
3. Supplemental water stored by SGPWA pursuant to the conditions herein and the approved Groundwater Storage Agreement will be made available to the Watermaster Committee members in accordance with laws, ordinances, and policies applicable to SGPWA.
4. Notwithstanding the foregoing conditions, members of the Watermaster Committee shall maintain the right(s) of first refusal to purchase supplemental water placed in storage by the SGPWA at times when SGPWA determines in its sole discretion under laws, ordinances, and policies applicable to SGPWA that it has stored supplemental water available for sale, transfer, or exchange. At such times, SGPWA shall notify all Watermaster Committee members via electronic mail a minimum of 30 calendar days prior to any sale, transfer, or exchange of any supplemental water in the storage account of SGPWA to any person or entity other than a Watermaster Committee member. The Watermaster shall determine what amount(s), if any, of the stored supplemental water offered by SGPWA will be purchased individually or collectively by the Watermaster Committee members, which right(s) of first refusal must be exercised in writing received by SGPWA within 30 calendar days after notice was sent by SGPWA.

With specific regard to Condition No. 4 above, SGPWA does not believe this condition is necessary or required by any provision of the SGPWA Law, SGPWA ordinances or policies, the Beaumont Basin Judgment, Watermaster Rules and Regulations, Watermaster Resolution 2005-01, or any California water law or policy regarding the reasonable and beneficial use of available groundwater storage space. Nevertheless, in the interest of cooperation and providing assurances to the Watermaster Committee members, SGPWA would be willing to accept these conditions in its Groundwater Storage Agreement.

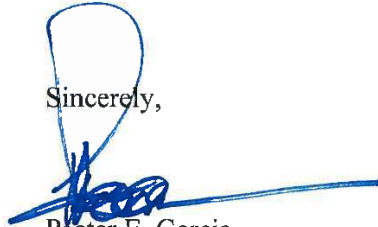
Based on the foregoing, SGPWA respectfully requests Watermaster to approve the SGPWA Application without further delay. Once again, we appreciate your time and consideration of this matter. Please feel free to contact me with any question or concerns. My direct line is (213) 787-2543.

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**BBK**  
**BEST BEST & KRIEGER**  
ATTORNEYS AT LAW

Beaumont Basin Watermaster  
May 31, 2017  
Page 5

Sincerely,



Paeter E. Garcia  
of BEST BEST & KRIEGER LLP

Attachments

cc: Kyle Warsinski, Watermaster Board Member (Via First Class Mail and Email)  
Joseph Zoba, Watermaster Board Member (Via First Class Mail and Email)  
Eric Fraser, Watermaster Board Member (Via First Class Mail and Email)  
George Jorritsma, Watermaster Board Member (Via First Class Mail and Email)  
City Council, City of Banning (Via First Class Mail and Email)  
City Council, City of Beaumont (Via First Class Mail and Email)  
Board of Directors, Beaumont-Cherry Valley Water District (Via First Class Mail and Email)  
Board of Directors, Yucaipa Valley Water District (Via First Class Mail and Email)  
Board of Directors, South Mesa Water Company (Via First Class Mail and Email)  
Keith McCullough, Alvarado Smith, Watermaster Legal Counsel (Via Email)  
Thierry Montoya, Alvarado Smith, Watermaster Legal Counsel (Via Email)  
Board of Directors, SGPWA (Via Email)  
Jeff Davis, SGPWA General Manager (Via Email)  
Jeff Ferre, Best Best & Krieger LLP

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# ATTACHMENT 1

**BEAUMONT BASIN WATERMASTER  
MEMORANDUM NO. 16-10**

**Date:** June 1, 2016

**From:** Hannibal Blandon, ALDA Inc.

**Subject:** Engineer's Opinion on the Application by the San Geronio Pass Water Agency (SGPWA) for a Groundwater Storage Agreement in the Beaumont Basin

**Recommendation:** For Information Purposes

---

At the April Board meeting, copies of SGPWA's application for a groundwater storage agreement in the Beaumont Basin were distributed to members of the Watermaster Committee for their review. Members were informed that this application will be brought for discussion at the regular Board meeting on June 1<sup>st</sup>, 2016. A copy of the application is attached.

In their application, SGPWA is requesting to store up to 10,000 ac-ft of water in the Beaumont Basin through artificial recharge of water from State Water Project and/or other supplemental water of equal or better quality. The proposed recharge facilities are located in the southwest corner of Brookside Avenue and Beaumont Avenue.

ALDA Inc., in association with Thomas Harder & Company, have conducted an initial review of the documents provided by SGPWA, and would like to offer the following comments for your consideration. Please note that our initial comments are based on our current knowledge of the basin only as no additional calculations or modeling runs have been conducted.

- 1.- Beaumont Basin Watermaster Resolution No. 2005-01 establishes principles of groundwater storage in the Beaumont Basin by Non-Appropriators. The application by SGPWA addresses each of the four sections outlined in the resolution.
- 2.- Currently, there are storage agreements with all Appropriators totaling 260,000 ac-ft. In addition, there is a storage agreement with Morongo Band of Mission Indians, a Non-Appropriator, for 20,000 ac-ft. for an overall total of 280,000 ac-ft. in storage agreements. The request by SGPWA to store up to 10,000 ac-ft. in the basin, if approved, will increase the total storage agreements by 3.57 percent to 290,000 ac-ft.
- 3.- According to the application, the SGPWA will like to construct the spreading facility and take advantage of additional water available through the State Water Project in wet years. The application indicates that the sole purpose of the storage account would be to temporarily store water purchase by SGPWA until it is purchased by

(transferred to) a local retail agency that has a storage account in the Beaumont Basin. Having this water available in SGPWA's account will increase the reliability of supply in the Beaumont Basin as Appropriators could meet their replenishment obligations by buying water from SGPWA through a paper transfer of storage.

- 4.- In the near term (10-12 years), SGPWA plans to store a maximum of 7,500 ac-ft/yr based on 80 percent plus allocation from the State and additional Article 21 water available in that year and/or additional water that SGPWA could obtain by purchase, transfer or exchange. Ultimately, SGPWA would like to store up to 13,000 ac-ft based on the 20 cfs capacity of its connection.
- 5.- The storage of imported water in the central portion of the basin could have a positive impact on local water levels; however, storage losses could potentially increase in the long term.
- 6.- Water quality of the State Water Project is equal to or better than the local groundwater quality in the basin, as documented in the application.

A representative from the SGPWA will be present at the meeting to address any questions that members of the Watermaster Committee may have.

## **ATTACHMENT 2**

## BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 16-18

**Date:** October 5, 2016

**From:** Hannibal Blandon, ALDA Inc.  
Joseph Zoba, Treasurer

**Subject:** Application by the San Gorgonio Pass Water Agency (SGPWA)  
for a Groundwater Storage Agreement in the Beaumont Basin

**Recommendation:** Pending

---

At the April Board meeting, copies of SGPWA's application for a groundwater storage agreement in the Beaumont Basin were distributed to members of the Watermaster Committee for their review.

At the Watermaster meeting on June 1, 2016, the Watermaster Committee discussed the importance of incorporating contingencies into the approval of the storage account to protect the rights and responsibilities of the Watermaster members to fulfill the terms of the Stipulated Judgment.

Based on discussions with Jeff Davis, General Manager of the San Gorgonio Pass Water Agency, there appears to be a common understanding that the following conditions could be included in the storage agreement with the San Gorgonio Pass Water Agency to represent the common goals of the parties:

1. The storage account authorized to the San Gorgonio Pass Water Agency shall not negatively impact, impede, reduce or obstruct the purchase and delivery of supplemental water from the San Gorgonio Pass Water Agency to any water retailer of the Watermaster Committee at any location or time.
2. When the quantity of supplemental water available on an annual basis exceeds all demands and/or requests for supplemental water by the Watermaster Committee members, the San Gorgonio Pass Water Agency may recharge the excess supplemental water in the Beaumont Avenue Recharge Facility or any other location approved by the Beaumont Basin Watermaster.
3. Supplemental water stored by the San Gorgonio Pass Water Agency pursuant to the conditions herein and the approved Storage Agreement will be made available at any time to the members of the Watermaster without restrictions
4. Any member or members of the Watermaster shall maintain the first right of refusal to purchase the supplemental water placed in storage by the San Gorgonio Pass Water Agency. All Watermaster members shall be notified in writing a minimum

of 60 calendar days prior to any sale, transfer, distribution, or exchange of any supplemental water in the storage account of the San Geronio Pass Water Agency. The Watermaster maintains an opportunity to individually or collectively purchase the water in the storage account of the San Geronio Pass Water Agency under the same terms and conditions offered to a member of the Watermaster, non-member of the Watermaster, or any other entity.

5. Any future condition, issue, or operational constraint that conflicts with the ability of any Watermaster member to administer and fulfill their obligation(s) pursuant to the Stipulated Judgment shall be immediate cause for rescinding the storage agreement to the San Geronio Pass Water Agency.

The specific language included in this Watermaster Memorandum is in a draft form and has not been shared with representatives of the San Geronio Pass Water Agency or any Watermaster Committee member. To ensure the Watermaster members retain the unequivocal right and authority to implement the full intent, terms and conditions of the Stipulated Judgment, the language above should be fully discussed and reviewed with our legal counsel as well as the San Geronio Pass Water Agency.

#### Background:

The SGPWA is requesting to store up to 10,000 ac-ft of water in the Beaumont Basin through artificial recharge of water from State Water Project and/or other supplemental water of equal or better quality. The proposed recharge facilities are located in the southwest corner of Brookside Avenue and Beaumont Avenue.

ALDA Inc., in association with Thomas Harder & Company, have conducted an initial review of the documents provided by SGPWA, and would like to offer the following comments for your consideration. Please note that our initial comments are based on our current knowledge of the basin only as no additional calculations or modeling runs have been conducted.

- 1.- Beaumont Basin Watermaster Resolution No. 2005-01 establishes principles of groundwater storage in the Beaumont Basin by Non-Appropriators. The application by SGPWA addresses each of the four sections outlined in the resolution.
- 2.- Currently, there are storage agreements with all Appropriators totaling 260,000 ac-ft. In addition, there is a storage agreement with Morongo Band of Mission Indians, a Non-Appropriator, for 20,000 ac-ft. for an overall total of 280,000 ac-ft. in storage agreements. The request by SGPWA to store up to 10,000 ac-ft. in the basin, if approved, will increase the total storage agreements by 3.57 percent to 290,000 ac-ft.
- 3.- According to the application, the SGPWA will like to construct the spreading facility and take advantage of additional water available through the State Water Project in wet years. The application indicates that the sole purpose of the storage account



would be to temporarily store water purchase by SGPWA until it is purchased by (transferred to) a local retail agency that has a storage account in the Beaumont Basin. Having this water available in SGPWA's account will increase the reliability of supply in the Beaumont Basin as Appropriators could meet their replenishment obligations by buying water from SGPWA through a paper transfer of storage.

- 4.- In the near term (10-12 years), SGPWA plans to store a maximum of 7,500 ac-ft/yr based on 80 percent plus allocation from the State and additional Article 21 water available in that year and/or additional water that SGPWA could obtain by purchase, transfer or exchange. Ultimately, SGPWA would like to store up to 13,000 ac-ft based on the 20 cfs capacity of its connection.
- 5.- The storage of imported water in the central portion of the basin could have a positive impact on local water levels; however, storage losses could potentially increase in the long term.
- 6.- Water quality of the State Water Project is equal to or better than the local groundwater quality in the basin, as documented in the application.

A representative from the SGPWA will be present at the meeting to address any questions that members of the Watermaster Committee may have.

# Attachment G

**RESOLUTION NO. 2017-01****A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER TO CONFIRM AND ADOPT SAN GORGONIO PASS WATER AGENCY'S ("SGPWA") APPLICATION FOR GROUNDWATER STORAGE AGREEMENT, SUBJECT TO STATED CONDITIONS**

**WHEREAS**, the Stipulated Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197) empowers the Beaumont Basin Watermaster to adopt appropriate rules and regulations for the conduct of Watermaster affairs; and

**WHEREAS**, pursuant to its authority, the Beaumont Basin Watermaster established principles of groundwater storage in the Beaumont Basin via Resolution No. 2005-01, the foundation for San Gorgonio Pass Water Agency Application for Groundwater Storage Agreement; and

**WHEREAS**, San Gorgonio Pass Water Agency is a state water contractor formed in 1961 for the purpose of importing water from the State Water Project into the San Gorgonio Pass area; and

**WHEREAS**, the San Gorgonio Pass Water Agency service area includes the Beaumont Basin; and

**WHEREAS**, the San Gorgonio Pass Water Agency submitted to the Beaumont Basin Watermaster a Groundwater Storage Application requesting, in pertinent part, to store up to 10,000 acre-feet of water in the Beaumont Basin through artificial recharge of water from the State Water Project, via proposed recharge facilities to be located in the southwest corner of Brookside Avenue and Beaumont Avenue; and

**WHEREAS**, the Beaumont Basin Watermaster issued copies of SGPWA's Groundwater Storage Application to members of its Watermaster Committee for review; and,

**WHEREAS**, the Beaumont Basin Watermaster met on numerous occasions to discuss SGPWA's Groundwater Storage Application agreeing to support such under the following conditions:

1. The San Gorgonio Pass Water Agency shall add imported water to their Groundwater Storage Account via spreading basins when the quantity of imported water available to the Region exceeds the demands and/or requests for imported water by the Watermaster Committee members as provided in the SGPWA application.

2. The San Gorgonio Pass Water Agency may recharge the excess imported water in the Beaumont Avenue Recharge Facility, or any other location approved by the Beaumont Basin Watermaster.
3. The imported water stored by the SGPWA pursuant to the conditions herein and the Groundwater Storage Application, will be made available, at any time, to the members of the Beaumont Basin Watermaster consistent with the laws, resolutions, ordinances, and policies of the San Gorgonio Pass Water Agency.
4. Members of the Watermaster Committee shall maintain the right(s) of first refusal to purchase imported water placed in storage by the San Gorgonio Pass Water Agency at times when the San Gorgonio Pass water Agency determines that it has stored supplemental water available for sale, transfer, or exchange. At such times, the San Gorgonio Pass Water Agency shall notify all Watermaster Committee members via electronic mail a minimum of 60 calendar days prior to any sale, transfer, or exchange of any supplemental water in the storage account of the San Gorgonio Pass Water Agency to any person, entity, or Watermaster member. The Watermaster shall determine what amount(s), if any, of the stored imported water available by the San Gorgonio Pass Water Agency will be purchased individually or collectively by the Watermaster Committee members, which right(s) of first refusal must be exercised in writing received by the San Gorgonio Pass Water Agency within 60 calendar days notice was sent by the San Gorgonio Pass Water Agency; and

**WHEREAS**, the Beaumont Basin Watermaster reviewed and discussed this Resolution on June 6, 2017 to take this matter up, finding that the foregoing is true and accurate.

**NOW, THEREFORE, BE IT RESOLVED BY THE BEAUMONT BASIN WATERMASTER** that it does hereby accept SGPWA's Groundwater Storage Application and does hereby grant SGPWA a water storage account pursuant to SGPWA's Groundwater Storage Application, subject to the conditions set forth in this Resolution, and subject to the Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197), its rules and regulations for the Beaumont Basin - to include groundwater storage in the Beaumont Basin by Non-Appropriators - a classification applying to SGPWA in the amount of 10,000 acre feet.

**PASSED AND ADOPTED** this 6<sup>th</sup> day of June 2017.

# Study Session Material

# Special Project Committee